

Maricopa County, AZ

Risk-assessment baseline packet

County FIPS: 04013 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 2027-05-10. Plan: Maricopa County (FEMA plan 107585), approved 2022-05-11.

Since the plan was approved on 2022-05-11: 3 new hazard declarations (3 incidents) and 759 NOAA Storm Events records; details under "What changed since your last plan".

Highest expected annual loss (FEMA National Risk Index, modeled total; see B1-a): Inland Flooding (\$1,119,501,534 a year), Heat Wave (\$957,986,784) and Wildfire (\$42,188,453).

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; 04013 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 2027-05-10	Plan:	Maricopa County (FEMA plan 107585)
Approved:	2022-05-11	Days to expiry:	222
Update underway:	none recorded in FEMA's plan tracker		

What changed since your last plan (approved 2022-05-11)

New federal declarations:	3 new hazard declarations (3 incidents): FM-5466-AZ (Diamond Fire), FM-5496-AZ (Rose Fire), FM-5501-AZ (Boulder View Fire)	Storm Events records since approval:	759 records (data through 2026-06-30)
Repetitive loss now:	FMA RL 2, SRL 7 (44 CFR 77.2); any definition: 104	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: 26 rows, in the section "Plan clock: Plan status for every jurisdiction listed in this county" on the following pages.

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

Plan clock

Plan status for every jurisdiction listed in this county

Source: 1

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Maricopa County	County	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Avondale city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Buckeye city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Carefree town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Cave Creek town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Chandler city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
El Mirage city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Fountain Hills town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Gila Bend town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Gilbert town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Glendale city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Goodyear city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Guadalupe town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Litchfield Park city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Mesa city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Paradise Valley town	Town	Plan 107585 approved 2022-05-11, pending adoption here; not yet eligible	Maricopa County (FEMA plan 107585), pending adoption here	2022-05-11 by FEMA; not yet adopted here	2027-05-10 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.
Peoria city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Phoenix city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Queen Creek town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Scottsdale city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Surprise city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Tempe city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Tolleson city	City	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Wickenburg town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		

Jurisdiction	Type	Status	Plan	Approved	Expires	Days to expiry <i>negative = days since expiry</i>	Update underway	Notes
Youngtown town	Town	Approved, expires 2027-05-10	Maricopa County (FEMA plan 107585)	2022-05-11	2027-05-10	222		
Salt River Project	Water/Sewer Authority	Plan 107585 approved 2022-05-11, pending adoption here; not yet eligible	Maricopa County (FEMA plan 107585), pending adoption here	2022-05-11 by FEMA; not yet adopted here	2027-05-10 once adopted		FEMA tracker shows a plan approvable pending adoption	Not yet eligible: adopt the approved plan.

Plan 107585 covers 2 other participants: Fort McDowell Yavapai Nation, Arizona; Salt River Pima-Maricopa Indian Community of the Salt River Reservation, Arizona.

Supports FEMA checklist item B1-a: hazard identification

Hazards NRI does not cover (local data needed)

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

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

Sources: 5, 6

Rank by EAL	Hazard	NRI risk rating	EAL rating	EAL buildings <i>modeled dollars per year</i>	EAL agriculture <i>modeled dollars per year</i>	Cost of expected deaths and injuries <i>FEMA's dollar value per year, not property damage</i>	EAL total (see note) <i>modeled dollars per year</i>	Storm Events records, 1996 to 2026-06-30 <i>count</i>	Storm Events coverage note
1	Inland Flooding	Very High	Very High	\$1,106,425,058	\$103,835	\$12,972,641	\$1,119,501,534	661	
2	Heat Wave	Very High	Very High	\$38,177	\$956,137	\$956,992,469	\$957,986,784	387	
3	Wildfire	Relatively High	Relatively High	\$40,323,983	\$3,844	\$1,860,626	\$42,188,453	6	
4	Earthquake	Relatively Moderate	Relatively High	\$22,473,406	n/a	\$8,250,984	\$30,724,390		Storm Events does not record earthquakes.
5	Hail	Very High	Very High	\$24,144,474	\$221	\$28,913	\$24,173,608	177	
6	Strong Wind	Very High	Very High	\$5,022,130	\$874	\$3,783,656	\$8,806,660	1,220	Includes 6 High Wind and 11 Strong Wind records (NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition).
7	Tornado	Relatively Moderate	Relatively Moderate	\$2,568,299	\$10,057	\$2,789,359	\$5,367,715	17	

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
8	Drought	Relatively High	Relatively High	n/a	\$4,593,446	n/a	\$4,593,446	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
9	Lightning	Relatively High	Relatively High	\$175,130	n/a	\$1,957,143	\$2,132,272	62	
10	Winter Weather	Relatively Low	Relatively Low	\$14,167	under \$1	\$32,844	\$47,011	5	
11	Landslide	Relatively Low	Relatively Low	\$27,122	n/a	\$1,001	\$28,124	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
12	Hurricane	Very Low	Very Low	\$7,010	\$4,760	under \$1	\$11,770	0	No recorded events in Storm Events since 1996 (data through 2026-06-30).
13	Avalanche	Very Low	Very Low	\$1	n/a	\$142	\$144	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 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: coastal flooding, 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.

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>
Avalanche	tract 405.15 (Very Low, 21.8); tract 101.02 (Very Low, 21.4); tract 6100.01 (Very Low, 18.1)
Earthquake	tract 1141 (Relatively Moderate, 83.8); tract 7233.05 (Relatively Moderate, 83.3); tract 1131 (Relatively Moderate, 83.0)
Hurricane	tract 7233.05 (Very Low, 42.1); tract 506.03 (Very Low, 32.2); tract 9413 (Very Low, 26.5)
Landslide	tract 101.02 (Relatively Moderate, 98.9); tract 405.15 (Relatively Low, 92.2); tract 405.39 (Relatively Low, 85.7)
Tornado	tract 1072.01 (Relatively Low, 36.7); tract 8173 (Relatively Low, 36.2); tract 101.02 (Relatively Low, 33.3)
Wildfire	tract 101.03 (Very High, 99.9); tract 101.02 (Very High, 99.8); tract 7233.04 (Very High, 99.2)

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 405.15 is Census Tract 405.15). 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
Avalanche	none (count and damage only)	0					
Cold/Wind Chill, Extreme Cold/Wind Chill	wind chill	0					
Frost/Freeze (outside NRI's Cold Wave definition)	crop damage	0					
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.

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Earthquake	Modified Mercalli (local data)	0					Storm Events does not record earthquakes; the USGS earthquake catalog is the source.
Hail	hail size (inches)	227 records, 1960 to 2025	0.25 in to 3 in (median 1 in); 226 with a recorded value	3 in hail, 2010-10-05		Event records naming jurisdictions in the plan: Phoenix city (21 records), Mesa city (15 records), Glendale city (8 records), Tempe city (6 records), Carefree town (5 records), Cave Creek town (5 records), Wickenburg town (5 records), Fountain Hills town (4 records), Scottsdale city (4 records), Chandler city (3 records); and 3 more jurisdictions (see the Excel file).	
Excessive Heat, Heat	heat index (in event narratives)	387 records, 2018 to 2025 (387 zone-level)	1 day to 29 days (median 3 days); 104 with a recorded value	29 consecutive days, 2023-07-01 to 2023-07-29, 122 direct deaths, zone-level		Countywide (zone-level records).	
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.
Flash Flood, Flood, Lakeshore Flood	damage and flood days (flood depth: FIRM)	661 records, 1996 to 2025		Flash Flood, 2021-08-14, \$25,000,000 property; \$0 crops (2021 dollars), 2 direct deaths		Event records naming jurisdictions in the plan: Cave Creek town (33 records), Wickenburg town (29 records), Scottsdale city (23 records), Phoenix city (16 records), Carefree town (14 records), Gila Bend town (14 records), Mesa city (12 records), Avondale city (8 records), Fountain Hills town (8 records), Gilbert town (5 records); and 12 more jurisdictions (see the Excel file).	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)	62 records, 1996 to 2025		Lightning, 1998-12-15, damage not reported, 1 direct death, 3 direct injuries	Lightning, 2005-07-31, \$500,000 property; crops not reported (2005 dollars)	Event records naming jurisdictions in the plan: Mesa city (12 records), Avondale city (3 records), Gilbert town (3 records), Phoenix city (3 records), Scottsdale city (2 records), Tolleson city (2 records), Buckeye city (1 record), Carefree town (1 record), Chandler city (1 record), El Mirage city (1 record); and 7 more jurisdictions (see the Excel file).	Storm Events lists lightning with damage or casualties.
High Wind and Strong Wind (outside NRI's Strong Wind definition)	wind speed (kt and mph)	17 records, 2018 to 2025 (17 zone-level)	30 kt (35 mph) to 58 kt (67 mph) (median 43 kt (49 mph)); 17 with a recorded value	58 kt (67 mph) measured gust, High Wind, 2022-10-03; NWS zone AZZ547	High Wind, 2022-10-03, \$10,000 property; \$0 crops (zone total, 2022 dollars)	Countywide (zone-level records).	

Hazard	Scale	Records <i>count and years</i>	Observed range	Worst recorded event	Most damaging (when different)	How it applies to jurisdictions	Note
Thunderstorm Wind	wind speed (kt and mph)	1,520 records, 1955 to 2025	35 kt (40 mph) to 100 kt (115 mph) (median 55 kt (63 mph)); 1,315 with a recorded value	100 kt (115 mph), measurement type not recorded, Thunderstorm Wind, 1996-08-14	Thunderstorm Wind, 2006-07-25, \$150,000,000 property; crops not reported (2006 dollars)	Event records naming jurisdictions in the plan: Phoenix city (93 records), Mesa city (83 records), Scottsdale city (38 records), Tempe city (33 records), Glendale city (32 records), Chandler city (22 records), Buckeye city (21 records), Fountain Hills town (17 records), Gila Bend town (17 records), Gilbert town (16 records); and 13 more jurisdictions (see the Excel file).	
Tornado	Enhanced Fujita (Fujita before Feb 2007)	73 records, 1955 to 2025	F/EF0 to F/EF3 (median F/EF0); 64 with a recorded value	F3 tornado, 1957-08-04, 12 mi path length (whole path, pre-1996), 33 yd wide, \$2,500 property; crops not recorded (1957 dollars)	Tornado, 1972-06-21, \$25,000,000 property; crops not recorded (1972 dollars)	Event records naming jurisdictions in the plan: Phoenix city (5 records), Carefree town (1 record), Gila Bend town (1 record), Mesa city (1 record), Queen Creek town (1 record), Scottsdale 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, 2020 to 2026 (6 zone-level)		Wildfire, 2021-06-04, \$8,000,000 property; \$0 crops (2021 dollars); NWS zone AZZ558		Countywide (zone-level records).	
Winter Storm, Heavy Snow, Blizzard, Lake- Effect Snow, Winter Weather, Sleet	none in data (snowfall: local data)	5 records, 2019 to 2023 (5 zone-level)		Heavy Snow, 2019-02-21, \$50,000 property; \$0 crops (2019 dollars); NWS zone AZZ541		Countywide (zone-level records).	

Where a hazard names more than 10 jurisdictions, the table lists the 10 with the most records; every one is in the Excel file, sheet "B1-c Extent".

In event narratives only (local data needed): wind chill, temperature, heat index, acres burned and snow depth; any physical measure of avalanche, 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: 26 declarations covering 22 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
2024-06-28	2024-06-28	FM-5501-AZ	Fire management	Boulder View Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2024-06-12	2024-06-12	FM-5496-AZ	Fire management	Rose Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2023-06-28	2023-06-27	FM-5466-AZ	Fire management	Diamond Fire	Wildfire	no Public Assistance recorded	new since last plan; within last 5 years	
2020-06-27	2020-06-27	FM-5315-AZ	Fire management	Avondale Fire	Wildfire	no Public Assistance recorded		
2020-06-23	2020-06-23	FM-5314-AZ	Fire management	Aquila Fire	Wildfire	no Public Assistance recorded		
2020-06-20	2020-06-20	FM-5313-AZ	Fire management	Bush Fire	Wildfire	no Public Assistance recorded		
2020-05-30	2020-05-30	FM-5311-AZ	Fire management	Ocotillo Fire	Wildfire	no Public Assistance recorded		
2020-05-18	2020-05-17	FM-5310-AZ	Fire management	East Desert Fire	Wildfire	no Public Assistance recorded		
2020-04-04	2020-01-20	DR-4524-AZ	Major disaster	COVID-19 Pandemic	Non-natural, not counted	\$318,375,608.28		
2020-03-13	2020-01-20	EM-3442-AZ	Emergency	COVID-19	Non-natural, not counted	no Public Assistance recorded		same incident as DR-4524
2014-11-05	2014-09-07	DR-4203-AZ	Major disaster	Severe Storms and Flooding	Inland Flooding	\$4,574,898.15		
2005-09-12	2005-08-29	EM-3241-AZ	Emergency	Hurricane Katrina Evacuation	Hurricane: evacuation support, not a local hazard event; not counted	\$586,994.11		
2005-07-22	2005-07-21	FM-2570-AZ	Fire management	Az-Wildfire (Edge Complex) 07-22-2005	Wildfire	no Public Assistance recorded		
2005-06-22	2005-06-21	FM-2561-AZ	Fire management	Cave Creek Fire Complex	Wildfire	no Public Assistance recorded		
2005-06-08	2005-06-08	FM-2559-AZ	Fire management	Az-Bobby Fire-06-08-2005	Wildfire	no Public Assistance recorded		

Declared	Incident began	FEMA number	Type	Title	Mapped hazard	County Public Assistance	Flags	Notes
						<i>federal share obligated, nominal dollars</i>		
2005-04-14	2005-02-10	DR-1586-AZ	Major disaster	Severe Storms and Flooding	Inland Flooding: designated for Hazard Mitigation only (no Public or Individual Assistance for this county); not counted	PA not declared for this county		
2000-10-27	2000-10-21	DR-1347-AZ	Major disaster	Severe Storms and Flooding	Inland Flooding	\$1,392,038.51		
1999-10-15	1999-09-14	DR-1304-AZ	Major disaster	Severe Storms, Flooding, High Winds	Inland Flooding; Strong Wind	PA not declared for this county		
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		
1990-12-06	1990-07-08	DR-884-AZ	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1980-02-19	1980-02-19	DR-614-AZ	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1978-12-21	1978-12-21	DR-570-AZ	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1978-03-04	1978-03-04	DR-551-AZ	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1972-07-03	1972-07-03	DR-343-AZ	Major disaster	Severe Storms & Flooding	Inland Flooding	no Public Assistance recorded		
1970-09-22	1970-09-22	DR-294-AZ	Major disaster	Heavy Rains & Flash	Inland Flooding	no Public Assistance recorded		
1966-04-30	1966-04-30	DR-217-AZ	Major disaster	Flooding	Inland Flooding	no Public Assistance recorded		

School districts and special districts in this county: \$3,262,409.60 (included in the county total above). Public Assistance matched by applicant name to the school districts and special districts FEMA lists as plan participants in this county. They have no row of their own in the jurisdiction table, so their total is listed here. These dollars are already included in the county PA column of the declarations table (the FEMA record places each applicant in this county), so this line is not added to it.

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.

Public Assistance filed under this county for declarations that do not list it: 3 rows, \$224,001.59

Sources: 2, 3

FEMA number	Declared	Title	Applicant	PA obligated
				<i>federal share obligated, nominal dollars</i>
DR-1888-AZ	2010-03-18	Severe Winter Storms and Flooding	Salt River Project	\$30,723.15
DR-1660-AZ	2006-09-07	Severe Storms and Flooding	GREEN RESERVOIR FLOOD CONTROL DISTRICT	\$0
DR-1581-AZ	2005-02-17	Severe Storms and Flooding	Arizona State Parks Board	\$193,278.44

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

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
Avalanche	0	0	0	0	0	0	1996 to 2026-06-30	No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events
Cold Wave	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	227	47	19	62	0	0	1955 to 2026-06-30	
Heat Wave	387	150	57	150	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	661	219	99	221	11	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	62	9	4	10	0	0	1996 to 2026-06-30	
Strong Wind	1,537	327	88	332	1	0	1955 to 2026-06-30	Includes 6 High Wind and 11 Strong Wind records.
Tornado	73	3	0	3	1	0	1950 to 2026-06-30	
Wildfire	6	2	1	2	11	3	1996 to 2026-06-30	
Winter Weather	5	2	0	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
2023-07-11	Excessive Heat		\$0 property; \$0 crops (zone total, 2023 dollars)	94, 0	NWS zone AZZ543 (CENTRAL PHOENIX), zone-level	new since last plan; within last 5 years	deaths or injuries recorded
2023-07-01	Excessive Heat		\$0 property; \$0 crops (zone total, 2023 dollars)	5, 0	NWS zone AZZ543 (CENTRAL PHOENIX), zone-level	new since last plan; within last 5 years	B1-c worst recorded: Excessive Heat, Heat
2022-10-03	High Wind	58 kt (67 mph) measured gust	\$0 property; \$0 crops (zone total, 2022 dollars)	0, 0	NWS zone AZZ547 (RIO VERDE/ SALT RIVER), zone-level	new since last plan; within last 5 years	B1-c worst recorded: High Wind and Strong Wind
2021-08-14	Flash Flood		\$25,000,000 property; \$0 crops (2021 dollars)	2, 0	(GBN)GILA BEND MUNI	in the 12 months before plan approval	B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood
2021-06-04	Wildfire		\$8,000,000 property; \$0 crops (zone total, 2021 dollars)	0, 0	NWS zone AZZ558 (PINAL/ SUPERSTITION MOUNTAINS), zone-level	in the 12 months before plan approval	B1-c worst recorded: Wildfire
2020-08-12	Excessive Heat		\$0 property; \$0 crops (zone total, 2020 dollars)	43, 0	NWS zone AZZ543 (CENTRAL PHOENIX), zone-level		deaths or injuries recorded
2020-07-10	Excessive Heat		\$0 property; \$0 crops (zone total, 2020 dollars)	32, 0	NWS zone AZZ543 (CENTRAL PHOENIX), zone-level		deaths or injuries recorded
2019-02-21	Heavy Snow		\$50,000 property; \$0 crops (zone total, 2019 dollars)	0, 0	NWS zone AZZ541 (CAVE CREEK/ NEW RIVER), zone-level		B1-c worst recorded: Winter Storm, Heavy Snow, Blizzard, Lake-Effect Snow, Winter Weather, Sleet
2010-10-05	Hail	3 in	\$1,800,000,000 property; crops not reported (2010 dollars)	0, 1	WEST CHANDLER to GLENDALE MUNI ARPT		B1-c worst recorded: Hail
1998-12-15	Lightning		damage not reported	1, 3	PARADISE VLY		B1-c worst recorded: Lightning
1996-08-14	Thunderstorm Wind	100 kt (115 mph), measurement type not recorded	damage not reported	0, 0	PHOENIX DEER VLY ARP		B1-c worst recorded: Thunderstorm Wind
1957-08-04	Tornado	F3, 12 mi path length (whole path, pre-1996), 33 yd wide	\$2,500 property; crops not recorded (1957 dollars)	0, 0	location not recorded		B1-c worst recorded: Tornado

The full list is in the Excel file, sheet "B1-d Storm Events history" (2,958 rows).

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

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.

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
Avalanche	0.01	events per year	about 1 in 100 years	Possible	FEMA annualized frequency (modeled)	0	1994 to 2023 (30 years)	see B1-f	0.01 is NRI's minimum avalanche frequency for a county in an avalanche susceptibility zone; NRI records no avalanche here, so the descriptor reflects the floor, not local events.
Cold Wave	0	event-days per year	none modeled		Storm Events 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	62.5	event-days per year	about 62.5 days per year		Storm Events event-days in 0 of 30 years, 1996 to 2025 (0%)	2,905	2000 to 2025 (25.25 years; D3 and D4 only)	countywide	No Storm Events drought record, 1996 to 2025
Earthquake	0.0107	annual probability at a location	chance a given location in the county has at least minor-damage shaking in a year: 1.08%			not shown	modeled	see B1-f	No descriptor (Storm Events does not record earthquakes).
Hail	0.28	events per year	about 1 in 4 years	Likely	FEMA annualized frequency (modeled)	10.6 (modeled)	1986 to 2023 (38 years)	countywide	
Heat Wave	19.8	event-days per year	about 19.8 days per year	Likely	Storm Events event-days in 8 of 30 years, 1996 to 2025 (26.7%)	154	2005-11-12 to 2024-11-12 (19 years)	countywide	
Hurricane	0.0115	events per year	about 1 in 87 years	Possible	FEMA annualized frequency (modeled)	3	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	8.46	event-days per year	about 8.46 days per year	Highly likely	Storm Events event-days in 28 of 30 years, 1996 to 2025 (93.3%)	237	1996 to 2023 (28 years)	see B1-f	
Landslide	2.11	events per year (modeled)	about 2.11 per year	Highly likely	FEMA annualized frequency (modeled)	not shown	modeled	see B1-f	
Lightning	32.3	days per year with a strike	about 32.3 days per year	Highly likely	FEMA annualized frequency (modeled)	not shown	1995 to 2023 (29 years; CONUS)	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
Strong Wind	1.4	events per year	about 1.4 per year	Highly likely	FEMA annualized frequency (modeled)	54	1986 to 2023 (38 years)	countywide	
Tornado	0.571	events per year	about 0.57 per year	Likely	FEMA annualized frequency (modeled)	not shown	1950 to 2023 (EF2+); 1986 to 2023 (EF0-1)	see B1-f	
Wildfire	0.00187	annual probability at a location	chance a given location in the county burns in a year: 0.187%	Likely	Storm Events records in 3 of 30 years, 1996 to 2025 (10%)	not shown	modeled	see B1-f	
Winter Weather	0.567	event-days per year	about 0.567 days per year	Likely	Storm Events event-days in 3 of 30 years, 1996 to 2025 (10%)	10.8	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	93	30	3.1
Hail	2.00 in+	1996 to 2025	3	30	0.1
Thunderstorm Wind (counted as NRI Strong Wind)	50-64 kt	1996 to 2025	967	30	32.2
Thunderstorm Wind (counted as NRI Strong Wind)	65 kt+	1996 to 2025	155	30	5.17
Thunderstorm Wind (counted as NRI Strong Wind)	unmeasured or below 50 kt	1996 to 2025	81	30	2.7
Tornado	EF0-1	1996 to 2025	15	30	0.5
Tornado	EF2-3	1996 to 2025	0	30	0
Tornado	EF4-5	1996 to 2025	0	30	0
Tornado	unrated (EFU)	1996 to 2025	2	30	0.0667

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	
Avalanche	3 of 1,009	18.1	21.4	21.8	Very Low 3, Not Applicable 1006
Cold Wave	0 of 1,009				No Rating 1009
Drought	438 of 1,009	66.9	75.0	99.4	Relatively High 4, Relatively Moderate 14, Relatively Low 120, Very Low 300, No Rating 571
Earthquake	1,008 of 1,009	0.7	43.0	83.8	Relatively Moderate 11, Relatively Low 525, Very Low 472, No Rating 1
Hail	1,009 of 1,009	0.2	68.3	96.6	Relatively High 16, Relatively Moderate 443, Relatively Low 541, Very Low 9
Heat Wave	1,009 of 1,009	1.4	98.7	100.0	Very High 922, Relatively High 69, Relatively Moderate 1, Relatively Low 2, Very Low 15
Hurricane	1,009 of 1,009	9.3	11.8	42.1	Very Low 1009
Inland Flooding	1,008 of 1,009	0.2	69.2	100.0	Very High 87, Relatively High 288, Relatively Moderate 352, Relatively Low 235, Very Low 46, No Rating 1
Landslide	263 of 1,009	8.6	13.1	98.9	Relatively Moderate 1, Relatively Low 8, Very Low 254, No Rating 746
Lightning	1,009 of 1,009	0.1	12.8	34.6	Relatively Low 100, Very Low 909
Strong Wind	1,009 of 1,009	0.2	31.3	81.0	Relatively Moderate 23, Relatively Low 916, Very Low 70

Hazard	Tracts <i>rated of all</i>	NRI risk score, 0 to 100			Tracts by rating
		Min	Median	Max	
Tornado	1,009 of 1,009	0.3	11.9	36.7	Relatively Low 6, Very Low 1003
Wildfire	748 of 1,009	18.6	63.1	99.9	Very High 3, Relatively High 48, Relatively Moderate 107, Relatively Low 178, Very Low 412, No Rating 261
Winter Weather	1,009 of 1,009	10.5	14.5	49.3	Relatively Moderate 1, Relatively Low 4, Very Low 1004

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 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
Maricopa County	County	Approved, expires 2027-05-10	FMA RL 1, SRL 0; any 18	\$16,640.65	0 total; 0 since its plan	Includes \$16,640.65 for declarations not counted as hazard incidents (DR-4524-AZ, EM-3241-AZ).
Avondale city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 1	\$80,155.66	13 total; 8 since its plan	Includes \$80,155.66 for declarations not counted as hazard incidents (DR-4524-AZ).
Buckeye city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 6	\$11,520.27	25 total; 2 since its plan	Includes \$11,520.27 for declarations not counted as hazard incidents (DR-4524-AZ).
Carefree town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$78,114.56	36 total; 6 since its plan	
Cave Creek town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$36,827.74	48 total; 13 since its plan	
Chandler city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$270,925.51	28 total; 1 since its plan	Includes \$107,891.70 for declarations not counted as hazard incidents (DR-4524-AZ).
El Mirage city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$26,601.96	7 total; 1 since its plan	Includes \$26,601.96 for declarations not counted as hazard incidents (DR-4524-AZ).
Fountain Hills town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	30 total; 6 since its plan	
Gila Bend town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$55,452.18	32 total; 7 since its plan	Includes \$55,452.18 for declarations not counted as hazard incidents (DR-4524-AZ).
Gilbert town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$824,265.95	24 total; 8 since its plan	Includes \$816,631.23 for declarations not counted as hazard incidents (DR-4524-AZ).
Glendale city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 1	\$155,998.81	44 total; 9 since its plan	Includes \$11,854.51 for declarations not counted as hazard incidents (DR-4524-AZ, EM-3241-AZ).
Goodyear city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 1; any 1	\$509,003.67	9 total; 2 since its plan	Includes \$223,300.82 for declarations not counted as hazard incidents (DR-4524-AZ).

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
Guadalupe town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$6,244.54	11 total; 4 since its plan	Includes \$6,244.54 for declarations not counted as hazard incidents (DR-4524-AZ).
Litchfield Park city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$8,558.92	10 total; 2 since its plan	Includes \$8,558.92 for declarations not counted as hazard incidents (DR-4524-AZ).
Mesa city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 4	\$1,106,303.16	123 total; 16 since its plan	Includes \$684,751.35 for declarations not counted as hazard incidents (DR-4524-AZ, EM-3241-AZ).
Paradise Valley town	Town	Plan 107585 approved 2022-05-11, pending adoption here; not yet eligible	FMA RL 0, SRL 0; any 4	\$227,121.59	0 total; no approved plan	Includes \$37,767.59 for declarations not counted as hazard incidents (DR-4524-AZ).
Peoria city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 1	\$17,084.45	8 total; 0 since its plan	Includes \$17,084.45 for declarations not counted as hazard incidents (EM-3241-AZ).
Phoenix city	City	Approved, expires 2027-05-10	FMA RL 1, SRL 5; any 57	\$1,472,401.33	138 total; 13 since its plan	Includes \$258,743.38 for declarations not counted as hazard incidents (EM-3241-AZ).
Queen Creek town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$366,711.96	19 total; 2 since its plan	Includes \$352,758.92 for declarations not counted as hazard incidents (DR-4524-AZ).
Scottsdale city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 5	\$501,148.20	68 total; 14 since its plan	Includes \$501,148.20 for declarations not counted as hazard incidents (DR-4524-AZ).
Surprise city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$398,469.35	2 total; 0 since its plan	Includes \$102,175.69 for declarations not counted as hazard incidents (DR-4524-AZ).
Tempe city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 1; any 2	\$1,187,556.49	42 total; 8 since its plan	Includes \$885,824.13 for declarations not counted as hazard incidents (DR-4524-AZ).
Tolleson city	City	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	\$126,069.17	15 total; 2 since its plan	Includes \$92,111.49 for declarations not counted as hazard incidents (DR-4524-AZ).
Wickenburg town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 4	\$38,026.22	49 total; 4 since its plan	
Youngtown town	Town	Approved, expires 2027-05-10	FMA RL 0, SRL 0; any 0	no Public Assistance recorded	9 total; 2 since its plan	

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

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

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 2022-05-11 <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
Avalanche	\$2,030,827	n/a	under 1	\$1	n/a	\$142	under 0.0001%				
Cold Wave	\$0	\$0	0	\$0	\$0	\$0					building exposure is 0 in NRI
Drought	n/a	\$493,004,902	n/a	n/a	\$4,593,446	n/a	0.932% (agriculture)				NRI has no building exposure for this hazard; agriculture shown
Earthquake	\$1,457,569,274,644	n/a	4,420,568	\$22,473,406	n/a	\$8,250,984	0.00154%				
Hail	\$854,730,526,869	\$1,556,808,461	4,418,836	\$24,144,474	\$221	\$28,913	0.00282%	\$33,000			
Heat Wave	\$854,730,526,869	\$1,556,808,461	4,418,836	\$38,177	\$956,137	\$956,992,469	under 0.0001%		\$0		
Hurricane	\$854,730,526,869	\$1,556,808,461	4,418,836	\$7,010	\$4,760	under \$1	under 0.0001%				

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 2022-05-11 <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
Inland Flooding	\$854,653,105,548	\$714,061,523	64,117	\$1,106,425,058	\$103,835	\$12,972,641	n/a (see note)	\$1,883,000			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	\$4,374,218,223	n/a	12,339	\$27,122	n/a	\$1,001	0.00062%				
Lightning	\$854,730,526,869	n/a	4,418,836	\$175,130	n/a	\$1,957,143	under 0.0001%	\$201,000			
Strong Wind	\$854,730,526,869	\$1,556,808,461	4,418,836	\$5,022,130	\$874	\$3,783,656	0.000588%	\$19,742,400	\$23,500		Storm Events damage since the plan includes 4 zone-level High Wind records (\$16,000) and 7 zone-level Strong Wind records (\$7,500): NOAA non-thunderstorm wind types, outside NRI's Strong Wind definition.
Tornado	\$854,730,526,869	\$1,556,808,461	4,418,836	\$2,568,299	\$10,057	\$2,789,359	0.0003%	\$50,000			

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 2022-05-11 <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	\$71,664,197,297	\$546,530,389	431,475	\$40,323,983	\$3,844	\$1,860,626	0.0563%	\$5,000,000		no Public Assistance recorded (3 declarations)	
Winter Weather	\$852,846,959,097	\$1,020,760,644	4,416,316	\$14,167	under \$1	\$32,844	under 0.0001%	\$0			

Totals since 2022-05-11 (Storm Events through 2026-06-30): 594 county-coded records, 577 with a damage value recorded (including \$0), \$21,909,400; 165 zone-level records, 165 with a damage value recorded (including \$0), \$5,023,500 reported for the zone; Public Assistance: none recorded on the 3 counted declarations.

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

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

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

County context

Source: 5

Measure	Value
Population	4,418,836
Building value (total, not at risk)	\$854,730,526,869
Agriculture value (total, not at risk)	\$1,556,808,461
NRI risk rating (all hazards)	Very High
Expected annual loss, buildings and agriculture, all hazards	\$1,206,892,131
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)	\$988,669,779
Social vulnerability rating	Relatively Low
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)	2	Severe repetitive loss, FMA definition (44 CFR 77.2)	7
Repetitive loss, NFIP insurance definition	101	Severe repetitive loss, NFIP insurance definition	4

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	2	7	101	4	104	3	24
of which: Maricopa County (unincorporated area)	1	0	18	0	18	0	2
of which: Avondale city	0	0	1	0	1	0	0
of which: Buckeye city	0	0	6	0	6	0	0
of which: Glendale city	0	0	1	0	1	0	0
of which: Goodyear city	0	1	1	1	1	0	0
of which: Mesa city	0	0	4	0	4	0	1
of which: Paradise Valley town	0	0	4	0	4	0	2
of which: Peoria city	0	0	1	0	1	0	0
of which: Phoenix city	1	5	54	2	57	3	14
of which: Tempe city	0	1	2	1	2	0	0
of which: Wickenburg town	0	0	4	0	4	0	0
of which: Scottsdale city	0	0	5	0	5	0	5
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>
Maricopa County	040037	1	0	18	0	18	0	2
Avondale city	040038	0	0	1	0	1	0	0
Buckeye city	040039	0	0	6	0	6	0	0

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>
Carefree town	040126	0	0	0	0	0	0	0
Cave Creek town	040129	0	0	0	0	0	0	0
Chandler city	040040	0	0	0	0	0	0	0
El Mirage city	040041	0	0	0	0	0	0	0
Fountain Hills town	040135	0	0	0	0	0	0	0
Gila Bend town	040043	0	0	0	0	0	0	0
Gilbert town	040044	0	0	0	0	0	0	0
Glendale city	040045	0	0	1	0	1	0	0
Goodyear city	040046	0	1	1	1	1	0	0
Guadalupe town	040111	0	0	0	0	0	0	0
Litchfield Park city	040128	0	0	0	0	0	0	0
Mesa city	040048	0	0	4	0	4	0	1
Paradise Valley town	040049	0	0	4	0	4	0	2
Peoria city	040050	0	0	1	0	1	0	0
Phoenix city	040051	1	5	54	2	57	3	14
Queen Creek town	040132	0	0	0	0	0	0	0
Scottsdale city	045012	0	0	5	0	5	0	5
Surprise city	040053	0	0	0	0	0	0	0
Tempe city	040054	0	1	2	1	2	0	0
Tolleson city	040055	0	0	0	0	0	0	0
Wickenburg town	040056	0	0	4	0	4	0	0
Youngtown town	040057	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	1	5	81	2	84	3	19
2 to 4 unit residential	1	0	3	0	3	0	0
other residential	0	0	3	0	3	0	2
non-residential	0	2	14	2	14	0	3
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 99 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)
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 (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.

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