

# Mayagüez Municipio, PR

Risk-assessment baseline packet

County FIPS: 72097    Release: 2026-10    Data as of: 2026-09-30    Storm Events data through: 2026-06-30

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

## Summary

Plan status as of 2026-09-30: Expired on 2026-01-07. Plan: Mayagüez (FEMA plan 106039), approved 2021-01-08.  
Update: FEMA tracker shows a plan in progress.  
Since the plan was approved on 2021-01-08: 4 new hazard declarations (2 incidents) and 57 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): Hurricane (\$39,685,124 a year), Earthquake (\$34,542,068) and Landslide (\$7,353,366).  
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; 72097 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.

## CONTENTS

- 1. Summary and terms used, page 1
- 2. Plan clock, page 2
- 3. What changed since your last plan (approved 2021-01-08), page 2
- 4. B1-a: hazard identification, page 3
- 5. B1-b: hazard location, page 5
- 6. B1-c: hazard extent, page 5
- 7. B1-d: previous occurrences, page 8
- 8. B1-e: probability of future events, page 12
- 9. B1-f: hazards that vary across jurisdictions, page 15
- 10. B2-a and B2-b: vulnerability and potential impacts, page 16
- 11. B2-a: vulnerability (county context), page 17
- 12. B2-c: repetitive loss properties, page 18
- 13. Sources, what the plan adds, disclaimer and citation, page 19

Plan clock

|                  |                                       |                    |                             |
|------------------|---------------------------------------|--------------------|-----------------------------|
| Status:          | Expired on 2026-01-07                 | Plan:              | Mayagüez (FEMA plan 106039) |
| Approved:        | 2021-01-08                            | Days since expiry: | 266                         |
| Update underway: | FEMA tracker shows a plan in progress |                    |                             |

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 2021-01-08)**

**New federal declarations:**

4 new hazard declarations (2 incidents): EM-3583-PR (Tropical Storm Fiona), DR-4671-PR (Hurricane Fiona), EM-3610-PR (Tropical Storm Ernesto), DR-4850-PR (Tropical Storm Ernesto)

**Repetitive loss now:**

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

**Storm Events records since approval:**

57 records (data through 2026-06-30)

**Repeat-flood change:**

this release sets the baseline count.

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

Plan status for every jurisdiction listed in this county

Source: 1

| Jurisdiction       | Type   | Status                | Plan                        | Approved   | Expires    | Days to expiry<br><small>negative = days since expiry</small> | Update underway                       |
|--------------------|--------|-----------------------|-----------------------------|------------|------------|---------------------------------------------------------------|---------------------------------------|
| Mayagüez Municipio | County | Expired on 2026-01-07 | Mayagüez (FEMA plan 106039) | 2021-01-08 | 2026-01-07 | -266                                                          | FEMA tracker shows a plan in progress |

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<br>by<br>EAL | Hazard              | NRI risk<br>rating   | EAL rating                   | EAL<br>buildings<br><i>modeled dollars<br/>per year</i> | EAL<br>agriculture<br><i>modeled<br/>dollars per year</i> | Cost of expected<br>deaths and<br>injuries<br><i>FEMA's dollar value<br/>per year, not property<br/>damage</i> | EAL total<br>(see note)<br><i>modeled dollars<br/>per year</i> | Storm Events<br>records, 1996 to<br>2026-06-30<br><i>count</i> | Why this hazard can be left<br>out<br><i>NRI Not Applicable, no declaration<br/>and no Storm Events record since<br/>1996</i> | Storm Events coverage note                                               |
|-------------------|---------------------|----------------------|------------------------------|---------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 1                 | Hurricane           | Insufficient<br>Data | Relatively<br>High           | \$37,266,542                                            | \$410,382                                                 | \$2,008,200                                                                                                    | \$39,685,124                                                   | 6                                                              |                                                                                                                               |                                                                          |
| 2                 | Earthquake          | Insufficient<br>Data | Relatively<br>High           | \$17,177,261                                            | n/a                                                       | \$17,364,806                                                                                                   | \$34,542,068                                                   |                                                                |                                                                                                                               | Storm Events does not record earthquakes.                                |
| 3                 | Landslide           | Insufficient<br>Data | Very High                    | \$6,883,727                                             | n/a                                                       | \$469,639                                                                                                      | \$7,353,366                                                    | 23                                                             |                                                                                                                               |                                                                          |
| 4                 | Inland<br>Flooding  | Insufficient<br>Data | Relatively Low               | \$6,258,255                                             | \$68,517                                                  | \$600,675                                                                                                      | \$6,927,448                                                    | 140                                                            |                                                                                                                               |                                                                          |
| 5                 | Lightning           | Insufficient<br>Data | Relatively<br>Moderate       | \$27,464                                                | n/a                                                       | \$752,104                                                                                                      | \$779,568                                                      | 4                                                              |                                                                                                                               |                                                                          |
| 6                 | Coastal<br>Flooding | Insufficient<br>Data | Relatively Low               | \$89,304                                                | n/a                                                       | \$26,335                                                                                                       | \$115,639                                                      | 6                                                              |                                                                                                                               |                                                                          |
| 7                 | Tornado             | Insufficient<br>Data | Very Low                     | \$21,756                                                | \$28                                                      | \$19,698                                                                                                       | \$41,482                                                       | 6                                                              |                                                                                                                               |                                                                          |
| 8                 | Hail                | Insufficient<br>Data | Very Low                     | \$6,617                                                 | \$350                                                     | \$1,027                                                                                                        | \$7,994                                                        | 5                                                              |                                                                                                                               |                                                                          |
| 9                 | Tsunami             | Insufficient<br>Data | Very Low                     | \$372                                                   | n/a                                                       | \$0                                                                                                            | \$372                                                          | 0                                                              |                                                                                                                               | No recorded events in Storm Events since 1996 (data through 2026-06-30). |
| 10                | Cold Wave           | Insufficient<br>Data | No Expected<br>Annual Losses | \$0                                                     | \$0                                                       | \$0                                                                                                            | \$0                                                            | 0                                                              |                                                                                                                               | No recorded events in Storm Events since 1996 (data through 2026-06-30). |
| 11                | Drought             | Insufficient<br>Data | No Expected<br>Annual Losses | n/a                                                     | \$0                                                       | n/a                                                                                                            | \$0                                                            | 2                                                              |                                                                                                                               |                                                                          |

| Rank<br>by<br>EAL | Hazard               | NRI risk<br>rating   | EAL rating                   | Cost of expected<br>deaths and<br>injuries              |                                                           |                                                                  |  | Storm Events<br>records, 1996 to<br>2026-06-30<br>count        | Why this hazard can be left<br>out<br><i>NRI Not Applicable, no declaration<br/>and no Storm Events record since<br/>1996</i> | Storm Events coverage note                                                                                       |
|-------------------|----------------------|----------------------|------------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------|--|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|                   |                      |                      |                              | EAL<br>buildings<br><i>modeled dollars<br/>per year</i> | EAL<br>agriculture<br><i>modeled<br/>dollars per year</i> | <i>FEMA's dollar value<br/>per year, not property<br/>damage</i> |  | EAL total<br>(see note)<br><i>modeled dollars<br/>per year</i> |                                                                                                                               |                                                                                                                  |
| 12                | Heat Wave            | Insufficient<br>Data | No Expected<br>Annual Losses | \$0                                                     | \$0                                                       | \$0                                                              |  | \$0                                                            | 26                                                                                                                            |                                                                                                                  |
| 13                | Strong Wind          | Insufficient<br>Data | No Expected<br>Annual Losses | \$0                                                     | \$0                                                       | \$0                                                              |  | \$0                                                            | 32                                                                                                                            | Includes 3 Strong Wind records (a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition).        |
| 14                | Winter<br>Weather    | Insufficient<br>Data | No Expected<br>Annual Losses | \$0                                                     | \$0                                                       | \$0                                                              |  | \$0                                                            | 0                                                                                                                             | No recorded events in Storm Events since 1996 (data through 2026-06-30).                                         |
|                   | Volcanic<br>Activity | Not<br>Applicable    | Not<br>Applicable            |                                                         |                                                           |                                                                  |  |                                                                | 2                                                                                                                             | NRI rates this Not Applicable, but 2 Storm Events records of this type exist since 1996; review before omitting. |
|                   | Wildfire             | Insufficient<br>Data | Insufficient<br>Data         | n/a                                                     | n/a                                                       | n/a                                                              |  | n/a                                                            | 5                                                                                                                             |                                                                                                                  |

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 tsunami, cold wave and winter weather 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 and ice storm. That is the evidence for leaving them out of the plan.*

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

## Supports FEMA checklist item B1-b: hazard location

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

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

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

Source: 5

| Hazard            | Highest-rated census tracts<br><i>NRI risk rating, score 0 to 100</i> |
|-------------------|-----------------------------------------------------------------------|
| Earthquake        | no tract has a National Risk Index rating for this hazard             |
| Hurricane         | no tract has a National Risk Index rating for this hazard             |
| Landslide         | no tract has a National Risk Index rating for this hazard             |
| Tornado           | no tract has a National Risk Index rating for this hazard             |
| Tsunami           | no tract has a National Risk Index rating for this hazard             |
| Volcanic Activity | no tract has a National Risk Index rating for this hazard             |
| Wildfire          | no tract has a National Risk Index rating for this hazard             |

Up to 3 census tracts per hazard, highest National Risk Index rating first, then highest score; a tract number is the Census tract number. 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<br><i>count and years</i>      | Observed range | Worst recorded event                                                                    | Most damaging<br>(when different) | How it applies to jurisdictions  | Note                                                |
|---------------------------------------------------|----------------------------------|----------------------------------------|----------------|-----------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|-----------------------------------------------------|
| Coastal Flood, Storm Surge/ Tide                  | none in data (flood depth: FIRM) | 6 records, 2006 to 2026 (6 zone-level) |                | Coastal Flood, 2026-02-03, \$20,000 property; \$0 crops (2026 dollars); NWS zone PRZ010 |                                   | Countywide (zone-level records). | Flood depth: see the FEMA Flood Insurance Rate Map. |
| Cold/Wind Chill, Extreme Cold/Wind Chill          | wind chill                       | 0                                      |                |                                                                                         |                                   |                                  |                                                     |
| Frost/Freeze (outside NRI's Cold Wave definition) | crop damage                      | 0                                      |                |                                                                                         |                                   |                                  |                                                     |

| Hazard                                                           | Scale                                                                              | Records<br><i>count and years</i>         | Observed range                                                                     | Worst recorded event                                                                                                                                                          | Most damaging<br>(when different)                                           | How it applies to jurisdictions                                                             | Note                                                                                                                                                                                                          |
|------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drought                                                          | U.S. Drought Monitor scale (D0 to D4)                                              | 2 records, 1997 to 2003 (2 zone-level)    | 31 days; 2 with a recorded value                                                   | 31 days (1 month), 2003-03-01 to 2003-03-31, zone-level                                                                                                                       |                                                                             | Countywide (zone-level records).                                                            | Storm Events enters a drought at D2 or worse east of the Rockies and D3 or worse from the Rockies west (NWS Instruction 10-1605); NRI drought counts D3 and D4 only.                                          |
| Earthquake                                                       | Modified Mercalli (local data)                                                     | 0                                         |                                                                                    |                                                                                                                                                                               |                                                                             |                                                                                             | Storm Events does not record earthquakes; the USGS earthquake catalog is the source.                                                                                                                          |
| Hail                                                             | hail size (inches)                                                                 | 5 records, 2001 to 2024 (2 zone-level)    | 0.25 in; 3 with a recorded value                                                   | 0.25 in hail, 2024-08-29; same size also recorded on 2013-09-01, 2024-08-29                                                                                                   | Hail, 2013-09-01, \$1,000 property; \$0 crops (2013 dollars)                | No event record names a jurisdiction in the plan. Zone-level records (2) apply countywide.  |                                                                                                                                                                                                               |
| Excessive Heat, Heat                                             | heat index (in event narratives)                                                   | 26 records, 2023 to 2024 (26 zone-level)  | 1 day to 30 days (median 1.5 days); 16 with a recorded value                       | September 2023 (1 monthly summary record), zone-level                                                                                                                         |                                                                             | Countywide (zone-level records).                                                            |                                                                                                                                                                                                               |
| Hurricane, Tropical Storm, Tropical Depression                   | Saffir-Simpson                                                                     | 6 records, 2000 to 2024 (6 zone-level)    |                                                                                    | Strongest recorded: Hurricane record (NOAA event type 'Hurricane (Typhoon)'), 2000-08-22 to 2000-08-23, \$41,000 property; crops not reported (2000 dollars); NWS zone PRZ010 |                                                                             | Countywide (zone-level records).                                                            | Storm Events files every zone of a storm's episode under the storm's type; flooding from the storm is filed as Flood or Flash Flood records.                                                                  |
| Flash Flood, Flood, Lakeshore Flood                              | damage and flood days (flood depth: FIRM)                                          | 140 records, 1998 to 2026 (64 zone-level) |                                                                                    | Flash Flood, 2001-05-06, \$8,000,000 property; \$2,000,000 crops (2001 dollars); NWS zone PRZ010                                                                              |                                                                             | No event record names a jurisdiction in the plan. Zone-level records (64) apply countywide. | Flood depth: see the FEMA Flood Insurance Rate Map. Storm Events damage is often \$0 or blank for floods, major ones included; FEMA Public Assistance by declaration (B1-d) shows which floods cost the most. |
| Debris Flow                                                      | none (count and damage only)                                                       | 23 records, 2003 to 2025 (17 zone-level)  |                                                                                    | Debris Flow, 2006-05-30, \$4,000 property; crops not reported (2006 dollars); NWS zone PRZ010                                                                                 |                                                                             | No event record names a jurisdiction in the plan. Zone-level records (17) apply countywide. |                                                                                                                                                                                                               |
| Lightning                                                        | annualized frequency (the measure FEMA's Local Mitigation Planning Handbook names) | 4 records, 1999 to 2016 (2 zone-level)    |                                                                                    | Lightning, 2002-08-22, \$10,000 property; crops not reported (2002 dollars); NWS zone PRZ010                                                                                  |                                                                             | No event record names a jurisdiction in the plan. Zone-level records (2) apply countywide.  | Storm Events lists lightning with damage or casualties.                                                                                                                                                       |
| High Wind and Strong Wind (outside NRI's Strong Wind definition) | wind speed (kt and mph)                                                            | 3 records, 2003 to 2026 (3 zone-level)    | 22 kt (25 mph) to 45 kt (52 mph) (median 35 kt (40 mph)); 3 with a recorded value  | 45 kt (52 mph) estimated gust, Strong Wind, 2003-10-24; NWS zone PRZ010                                                                                                       |                                                                             | Countywide (zone-level records).                                                            |                                                                                                                                                                                                               |
| Thunderstorm Wind                                                | wind speed (kt and mph)                                                            | 30 records, 1993 to 2026 (9 zone-level)   | 22 kt (25 mph) to 61 kt (70 mph) (median 35 kt (40 mph)); 19 with a recorded value | 61 kt (70 mph), measurement type not recorded, Thunderstorm Wind, 1998-07-17                                                                                                  | Thunderstorm Wind, 2010-07-17, \$500,000 property; \$0 crops (2010 dollars) | No event record names a jurisdiction in the plan. Zone-level records (9) apply countywide.  |                                                                                                                                                                                                               |

| Hazard                                                                                      | Scale                                         | Records<br><i>count and years</i>            | Observed range                    | Worst recorded event                                                                                                                                                         | Most damaging<br>(when different)                                                         | How it applies to jurisdictions                                                                  | Note                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tornado                                                                                     | Enhanced Fujita<br>(Fujita before Feb 2007)   | 6 records,<br>1999 to 2007<br>(4 zone-level) | F/EF0; 2 with a<br>recorded value | F0 tornado, 1999-09-06,<br>0.2 mi within this county,<br>5 yd wide, damage not<br>reported; same rating,<br>casualties and property<br>damage also recorded on<br>1999-07-20 | Tornado, 2007-08-06,<br>\$35,000 property;<br>\$1,000 crops (zone<br>total, 2007 dollars) | No event record names a jurisdiction<br>in the plan. Zone-level records (4)<br>apply countywide. | Before 1996 a tornado is listed once, under<br>the county where it began, with its whole<br>path's rating and length; from 1996 on, each<br>county lists its own segment. Length is not<br>used to rank tornadoes (see Methods). |
| Tsunami                                                                                     | none (count and<br>damage only)               | 0                                            |                                   |                                                                                                                                                                              |                                                                                           |                                                                                                  |                                                                                                                                                                                                                                  |
| Volcanic Ash,<br>Volcanic<br>Ashfall                                                        | Volcanic<br>Explosivity Index<br>(local data) | 2 records,<br>2001 to 2003<br>(2 zone-level) |                                   | No damage reported in 2<br>records.                                                                                                                                          |                                                                                           | Countywide (zone-level records).                                                                 |                                                                                                                                                                                                                                  |
| Wildfire                                                                                    | acres burned<br>(local data)                  | 5 records,<br>2000 to 2024<br>(4 zone-level) |                                   | Wildfire, 2000-03-14,<br>\$1,000,000 property;<br>\$1,000,000 crops (2000<br>dollars)                                                                                        |                                                                                           | No event record names a jurisdiction<br>in the plan. Zone-level records (4)<br>apply countywide. |                                                                                                                                                                                                                                  |
| Winter Storm,<br>Heavy Snow,<br>Blizzard, Lake-<br>Effect Snow,<br>Winter<br>Weather, Sleet | none in data<br>(snowfall: local<br>data)     | 0                                            |                                   |                                                                                                                                                                              |                                                                                           |                                                                                                  |                                                                                                                                                                                                                                  |

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

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.

A monthly summary record covers most or all of a month; it does not count days at wave conditions.

## Supports FEMA checklist item B1-d: previous occurrences

Federal declarations for this county: 23 declarations covering 16 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<br><i>federal share obligated, nominal dollars</i> | Flags                                    | Notes                    |
|------------|----------------|-------------|----------------|--------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------|--------------------------|
| 2024-11-27 | 2024-08-13     | DR-4850-PR  | Major disaster | Tropical Storm Ernesto                                             | Hurricane (primary); also designated: Inland Flooding, Landslide | \$2,135,076.50                                                              | new since last plan; within last 5 years |                          |
| 2024-08-13 | 2024-08-13     | EM-3610-PR  | Emergency      | Tropical Storm Ernesto                                             | Hurricane; Inland Flooding; Landslide                            | no Public Assistance recorded                                               | new since last plan; within last 5 years | same incident as DR-4850 |
| 2022-09-21 | 2022-09-17     | DR-4671-PR  | Major disaster | Hurricane Fiona                                                    | Hurricane                                                        | \$12,111,856.69                                                             | new since last plan; within last 5 years |                          |
| 2022-09-18 | 2022-09-17     | EM-3583-PR  | Emergency      | Tropical Storm Fiona                                               | Hurricane                                                        | no Public Assistance recorded                                               | new since last plan; within last 5 years | same incident as DR-4671 |
| 2020-09-09 | 2020-07-29     | DR-4560-PR  | Major disaster | Hurricane Isaias                                                   | Hurricane                                                        | PA not declared for this county                                             | in the 12 months before plan approval    |                          |
| 2020-08-22 | 2020-08-21     | EM-3537-PR  | Emergency      | Tropical Storm Laura                                               | Hurricane                                                        | no Public Assistance recorded                                               | in the 12 months before plan approval    |                          |
| 2020-07-29 | 2020-07-27     | EM-3532-PR  | Emergency      | Potential Tropical Cyclone Nine                                    | Hurricane                                                        | no Public Assistance recorded                                               | in the 12 months before plan approval    | same incident as DR-4560 |
| 2020-03-27 | 2020-01-20     | DR-4493-PR  | Major disaster | COVID-19 Pandemic                                                  | Non-natural, not counted                                         | no Public Assistance recorded                                               | in the 12 months before plan approval    |                          |
| 2020-03-13 | 2020-01-20     | EM-3452-PR  | Emergency      | COVID-19                                                           | Non-natural, not counted                                         | no Public Assistance recorded                                               | in the 12 months before plan approval    | same incident as DR-4493 |
| 2020-01-16 | 2019-12-28     | DR-4473-PR  | Major disaster | Earthquakes                                                        | Earthquake                                                       | \$839,246.79                                                                | in the 12 months before plan approval    |                          |
| 2020-01-07 | 2019-12-28     | EM-3426-PR  | Emergency      | Earthquakes                                                        | Earthquake                                                       | no Public Assistance recorded                                               |                                          | same incident as DR-4473 |
| 2019-08-27 | 2019-08-26     | EM-3417-PR  | Emergency      | Tropical Storm Dorian                                              | Hurricane                                                        | no Public Assistance recorded                                               |                                          |                          |
| 2017-09-20 | 2017-09-17     | DR-4339-PR  | Major disaster | Hurricane Maria                                                    | Hurricane                                                        | \$91,248,908.71                                                             |                                          |                          |
| 2017-09-18 | 2017-09-17     | EM-3391-PR  | Emergency      | Hurricane Maria                                                    | Hurricane                                                        | no Public Assistance recorded                                               |                                          | same incident as DR-4339 |
| 2011-08-22 | 2011-08-21     | EM-3326-PR  | Emergency      | Hurricane Irene                                                    | Hurricane                                                        | \$8,979.26                                                                  |                                          |                          |
| 2010-10-26 | 2010-10-04     | DR-1946-PR  | Major disaster | Severe Storms, Flooding, Mudslides, and Landslides Assoc W Ts Otto | Hurricane; Inland Flooding; Landslide                            | \$507,524.21                                                                |                                          |                          |
| 2004-09-17 | 2004-09-14     | DR-1552-PR  | Major disaster | Tropical Storm Jeanne and Resulting Landslides and Mudslides       | Hurricane; Landslide                                             | \$90,327.76                                                                 |                                          |                          |

| Declared   | Incident began | FEMA number | Type           | Title                             | Mapped hazard                                         | County Public Assistance                        | Flags | Notes |
|------------|----------------|-------------|----------------|-----------------------------------|-------------------------------------------------------|-------------------------------------------------|-------|-------|
|            |                |             |                |                                   |                                                       | <i>federal share obligated, nominal dollars</i> |       |       |
| 1999-11-17 | 1999-11-17     | EM-3151-PR  | Emergency      | Hurricane Lenny                   | Hurricane                                             | no Public Assistance recorded                   |       |       |
| 1998-09-24 | 1998-09-20     | DR-1247-PR  | Major disaster | Hurricane Georges - 18 Sep 98     | Hurricane                                             | no Public Assistance recorded                   |       |       |
| 1996-09-11 | 1996-09-09     | DR-1136-PR  | Major disaster | Hurricane Hortense                | Hurricane                                             | PA not declared for this county                 |       |       |
| 1985-05-31 | 1985-05-16     | DR-736-PR   | Major disaster | Storms, Mud/Land Slides, Flooding | Inland Flooding (primary); also designated: Landslide | PA not declared for this county                 |       |       |
| 1979-09-02 | 1979-09-02     | DR-597-PR   | Major disaster | Hurricane David                   | Hurricane                                             | no Public Assistance recorded                   |       |       |
| 1975-09-19 | 1975-09-19     | DR-483-PR   | Major disaster | Tropical Storm Elioise            | Inland Flooding (primary); also designated: Hurricane | no Public Assistance recorded                   |       |       |

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

## Statewide declarations

Source: 2

| Declared   | Incident began | FEMA number | Type           | Title                                                  | Mapped hazard                                         |
|------------|----------------|-------------|----------------|--------------------------------------------------------|-------------------------------------------------------|
| 1998-09-21 | 1998-09-20     | EM-3130-PR  | Emergency      | Hurricane Georges (Direct Federal Assist First 72 Hrs) | Hurricane                                             |
| 1964-05-26 | 1964-05-26     | DR-170-PR   | Major disaster | Extreme Drought Conditions                             | Drought                                               |
| 1956-08-18 | 1956-08-18     | DR-62-PR    | Major disaster | Hurricane                                              | Hurricane (primary); also designated: 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.

## Public Assistance filed under this county for declarations that do not list it: 1 row, \$94,690.35

Sources: 2, 3

| FEMA number | Declared   | Title          | Applicant            | PA obligated                                    |
|-------------|------------|----------------|----------------------|-------------------------------------------------|
|             |            |                |                      | <i>federal share obligated, nominal dollars</i> |
| EM-3384-PR  | 2017-09-05 | Hurricane Irma | Mayaguez (Municipio) | \$94,690.35                                     |

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

| <b>Hazard</b>     | <b>Storm Events records,<br/>all years on file<br/><i>(years in the Period column)</i></b> | <b>Since plan<br/>approval<br/><i>records</i></b> | <b>In the 12 months before<br/>plan approval<br/><i>records</i></b> | <b>Last 5<br/>years<br/><i>records</i></b> | <b>Declared incidents,<br/>all years<br/><i>separate disasters</i></b> | <b>Declared since<br/>approval<br/><i>separate disasters</i></b> | <b>Period</b>      | <b>Statement</b>                                                                     |
|-------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------|
| Coastal Flooding  | 6                                                                                          | 3                                                 | 0                                                                   | 3                                          | 0                                                                      | 0                                                                | 1996 to 2026-06-30 |                                                                                      |
| 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           | 2                                                                                          | 0                                                 | 0                                                                   | 0                                          | 0                                                                      | 0                                                                | 1996 to 2026-06-30 |                                                                                      |
| Earthquake        | 0                                                                                          | 0                                                 | 0                                                                   | 0                                          | 1                                                                      | 0                                                                |                    | Storm Events does not record earthquakes; the USGS earthquake catalog is the source. |
| Hail              | 5                                                                                          | 2                                                 | 0                                                                   | 2                                          | 0                                                                      | 0                                                                | 1955 to 2026-06-30 |                                                                                      |
| Heat Wave         | 26                                                                                         | 26                                                | 0                                                                   | 26                                         | 0                                                                      | 0                                                                | 1996 to 2026-06-30 |                                                                                      |
| Hurricane         | 6                                                                                          | 1                                                 | 1                                                                   | 1                                          | 14                                                                     | 2                                                                | 1996 to 2026-06-30 |                                                                                      |
| Inland Flooding   | 140                                                                                        | 16                                                | 6                                                                   | 16                                         | 4                                                                      | 1                                                                | 1996 to 2026-06-30 |                                                                                      |
| Landslide         | 23                                                                                         | 3                                                 | 3                                                                   | 3                                          | 4                                                                      | 1                                                                | 1996 to 2026-06-30 |                                                                                      |
| Lightning         | 4                                                                                          | 0                                                 | 0                                                                   | 0                                          | 0                                                                      | 0                                                                | 1996 to 2026-06-30 |                                                                                      |
| Strong Wind       | 33                                                                                         | 5                                                 | 1                                                                   | 5                                          | 0                                                                      | 0                                                                | 1955 to 2026-06-30 | Includes 3 Strong Wind records.                                                      |
| Tornado           | 6                                                                                          | 0                                                 | 0                                                                   | 0                                          | 0                                                                      | 0                                                                | 1950 to 2026-06-30 |                                                                                      |
| Tsunami           | 0                                                                                          | 0                                                 | 0                                                                   | 0                                          | 0                                                                      | 0                                                                | 1996 to 2026-06-30 | No recorded events, 1996 to 2026-06-30, NOAA NCEI Storm Events                       |
| Volcanic Activity | 2                                                                                          | 0                                                 | 0                                                                   | 0                                          | 0                                                                      | 0                                                                | 1996 to 2026-06-30 |                                                                                      |
| Wildfire          | 5                                                                                          | 1                                                 | 0                                                                   | 1                                          | 0                                                                      | 0                                                                | 1996 to 2026-06-30 |                                                                                      |
| 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<br><i>nominal dollars</i>                                   | Deaths,<br>injuries<br><i>direct only</i> | Location                                            | Flags                                    | Why listed                                                          |
|------------|---------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|-----------------------------------------------------|------------------------------------------|---------------------------------------------------------------------|
| 2026-02-03 | Coastal Flood                                     |                                          | \$20,000 property; \$0 crops (zone total, 2026 dollars)            | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level | new since last plan; within last 5 years | B1-c worst recorded: Coastal Flood, Storm Surge/Tide                |
| 2024-08-29 | Hail                                              | 0.25 in                                  | \$500 property; \$0 crops (2024 dollars)                           | 0, 0                                      | MAYAGUEZ                                            | new since last plan; within last 5 years | B1-c worst recorded: Hail                                           |
| 2023-09-01 | Excessive Heat                                    |                                          | \$0 property; \$0 crops (zone total, 2023 dollars)                 | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level | new since last plan; within last 5 years | B1-c worst recorded: Excessive Heat, Heat                           |
| 2010-07-17 | Thunderstorm Wind                                 | 45 kt (52 mph) estimated gust            | \$500,000 property; \$0 crops (2010 dollars)                       | 0, 7                                      | MAYAGUEZ                                            |                                          | deaths or injuries recorded                                         |
| 2006-05-30 | Debris Flow                                       |                                          | \$4,000 property; crops not reported (zone total, 2006 dollars)    | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | B1-c worst recorded: Debris Flow                                    |
| 2004-09-14 | Tropical Storm                                    |                                          | damage not reported                                                | 1, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | deaths or injuries recorded                                         |
| 2003-09-12 | Flash Flood                                       |                                          | \$7,000 property; crops not reported (zone total, 2003 dollars)    | 1, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | deaths or injuries recorded                                         |
| 2003-03-01 | Drought                                           |                                          | damage not reported                                                | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | B1-c worst recorded: Drought                                        |
| 2002-08-22 | Lightning                                         |                                          | \$10,000 property; crops not reported (zone total, 2002 dollars)   | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | B1-c worst recorded: Lightning                                      |
| 2001-05-06 | Flash Flood                                       |                                          | \$8,000,000 property; \$2,000,000 crops (zone total, 2001 dollars) | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | B1-c worst recorded: Flash Flood, Flood, Lakeshore Flood            |
| 2000-08-22 | Hurricane (NOAA event type 'Hurricane (Typhoon)') |                                          | \$41,000 property; crops not reported (zone total, 2000 dollars)   | 0, 0                                      | NWS zone PRZ010 (MAYAGUEZ AND VICINITY), zone-level |                                          | B1-c worst recorded: Hurricane, Tropical Storm, Tropical Depression |
| 1999-09-06 | Tornado                                           | F0, 0.2 mi within this county, 5 yd wide | damage not reported                                                | 0, 0                                      | CABO ROJO                                           |                                          | B1-c worst recorded: Tornado                                        |

The full list is in the Excel file, sheet "B1-d Storm Events history" (258 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).

FEMA's declaration data list no tribal or special-area declarations for this state.

## 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)<br><i>unit per row</i> | Unit                                    | In plain terms                                                                           | Descriptor    | Descriptor basis                                                | NRI events or days in its record period (hail, wind and tornado are area-weighted, so can be fractional) | NRI period                                 | Location   | Note                                                                                                                                                                                                                |
|------------------|------------------------------------------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coastal Flooding | 0.212                                                      | events per year at a location (modeled) | about 0.21 per year at a given location in the county                                    | Likely        | Storm Events records in 4 of 30 years, 1996 to 2025 (13.3%)     | not shown                                                                                                | modeled                                    | see B1-f   |                                                                                                                                                                                                                     |
| 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          | 0                                                          | event-days per year                     | none modeled                                                                             | Possible      | Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)  | 0                                                                                                        | 2000 to 2025 (25.25 years; D3 and D4 only) | countywide | NRI models no drought event-days here (2000 to 2025, 25.25 years; D3 and D4 only); Storm Events has a record in 2 of 30 years. The descriptor comes from Storm Events, which counts D2 drought that NRI leaves out. |
| Earthquake       | 0.0519                                                     | annual probability at a location        | chance a given location in the county has at least minor-damage shaking in a year: 5.19% |               |                                                                 | not shown                                                                                                | modeled                                    | see B1-f   | No descriptor (Storm Events does not record earthquakes).                                                                                                                                                           |
| Hail             | 0.0189                                                     | events per year                         | about 1 in 53 years                                                                      | Possible      | FEMA annualized frequency (modeled)                             | 0.8 (modeled)                                                                                            | 1986 to 2023 (38 years)                    | countywide |                                                                                                                                                                                                                     |
| Heat Wave        | 0.0506                                                     | event-days per year                     | about 0.0506 days per year                                                               | Possible      | Storm Events event-days in 2 of 30 years, 1996 to 2025 (6.67%)  | 0.281                                                                                                    | 2005-11-12 to 2024-11-12 (19 years)        | countywide |                                                                                                                                                                                                                     |
| Hurricane        | 0.195                                                      | events per year                         | about 1 in 5 years                                                                       | Likely        | FEMA annualized frequency (modeled)                             | 71                                                                                                       | 1851 to 2024 (Atlantic)                    | see B1-f   | NRI counts hurricane and tropical storm tracks passing within storm-force wind range; federal declarations are in B1-d.                                                                                             |
| Inland Flooding  | 1.57                                                       | event-days per year                     | about 1.57 days per year                                                                 | Likely        | Storm Events event-days in 25 of 30 years, 1996 to 2025 (83.3%) | 44                                                                                                       | 1996 to 2023 (28 years)                    | see B1-f   |                                                                                                                                                                                                                     |
| Landslide        | 31.3                                                       | events per year (modeled)               | about 31.3 per year                                                                      | Highly likely | FEMA annualized frequency (modeled)                             | not shown                                                                                                | modeled                                    | see B1-f   |                                                                                                                                                                                                                     |

| Hazard            | FEMA annualized frequency (modeled)<br><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                                                                                                                          |
|-------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------|---------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------|
| Lightning         | 67.7                                                       | days per year with a strike                                                       | about 67.7 days per year                                      | Highly likely | FEMA annualized frequency (modeled)                         | not shown                                                                                                | 1995 to 2023 (29 years; CONUS)            | countywide |                                                                                                                               |
| Strong Wind       | 0                                                          | events per year                                                                   | none modeled                                                  | Unlikely      | FEMA annualized frequency (modeled)                         | 0                                                                                                        | 1986 to 2023 (38 years)                   | countywide | NRI rates this hazard Insufficient Data for this county; the descriptor applies the scale to FEMA's published frequency of 0. |
| Tornado           | 0.0068                                                     | events per year                                                                   | about 1 in 147 years                                          | Unlikely      | FEMA annualized frequency (modeled)                         | not shown                                                                                                | 1950 to 2023 (EF2+); 1986 to 2023 (EF0-1) | see B1-f   |                                                                                                                               |
| Tsunami           | 0.0557                                                     | annual probability at the most exposed location (used in place of a county value) | chance at the county's most exposed location in a year: 5.57% |               | 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                                                                            |
| Volcanic Activity |                                                            | annual probability                                                                |                                                               |               |                                                             | not shown                                                                                                | modeled                                   | see B1-f   | Not Applicable in NRI for this county; no descriptor.                                                                         |
| Wildfire          |                                                            | annual probability at a location                                                  |                                                               | Likely        | Storm Events records in 4 of 30 years, 1996 to 2025 (13.3%) | not shown                                                                                                | modeled                                   | see B1-f   |                                                                                                                               |
| Winter Weather    | 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 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.

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<br><i>county-coded records</i> | Years in period | Events per year<br><i>events / years</i> |
|------------------------------------------------|---------------------------|--------------|---------------------------------------|-----------------|------------------------------------------|
| Hail                                           | 1.00-1.99 in              | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Hail                                           | 2.00 in+                  | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Thunderstorm Wind (counted as NRI Strong Wind) | 50-64 kt                  | 1996 to 2025 | 3                                     | 30              | 0.1                                      |
| Thunderstorm Wind (counted as NRI Strong Wind) | 65 kt+                    | 1996 to 2025 | 0                                     | 30              | 0                                        |
| Thunderstorm Wind (counted as NRI Strong Wind) | unmeasured or below 50 kt | 1996 to 2025 | 16                                    | 30              | 0.533                                    |
| 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<br><i>rated of all</i> | NRI risk score, 0 to 100 |        |     | Tracts by rating                       |
|-------------------|-------------------------------|--------------------------|--------|-----|----------------------------------------|
|                   |                               | Min                      | Median | Max |                                        |
| Coastal Flooding  | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Cold Wave         | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Drought           | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Earthquake        | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Hail              | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Heat Wave         | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Hurricane         | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Inland Flooding   | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Landslide         | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Lightning         | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Strong Wind       | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Tornado           | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Tsunami           | 0 of 25                       |                          |        |     | Not Applicable 17, Insufficient Data 8 |
| Volcanic Activity | 0 of 25                       |                          |        |     | Not Applicable 25                      |
| Wildfire          | 0 of 25                       |                          |        |     | Insufficient Data 25                   |
| Winter Weather    | 0 of 25                       |                          |        |     | Insufficient Data 25                   |

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.

Each jurisdiction (starting figures from federal data)

Sources: 1, 3, 4, 6

| Jurisdiction       | Type   | Plan status           | Repetitive loss                                                   | Public Assistance to this jurisdiction                                                  | Event records naming this place  | Notes                                                                                                                         |
|--------------------|--------|-----------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                    |        |                       | <i>FMA RL and SRL (44 CFR 77.2); repeat-flood, any definition</i> | <i>FEMA records matched by applicant name; federal share obligated, nominal dollars</i> | <i>all years; since its plan</i> |                                                                                                                               |
| Mayagüez Municipio | County | Expired on 2026-01-07 | FMA RL 0, SRL 0; any 0                                            | \$83,156,637.19                                                                         | 0 total; 0 since its plan        | Puerto Rico commonwealth community (720000): this row counts only its properties in this municipio, as the county table does. |

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<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | Cost of expected deaths and injuries<br><i>FEMA's dollar value per year, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2021-01-08<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                                                                                                                                                      |
|------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coastal Flooding | \$3,708,236,488                             | n/a                                            | 17,373                              | \$89,304                                         | n/a                                                | \$26,335                                                                                         | 0.00241%                                                          |                                                                                                           | \$24,500                                                                          |                                                                  |                                                                                                                                                                           |
| Cold Wave        | \$0                                         | \$0                                            | 0                                   | \$0                                              | \$0                                                | \$0                                                                                              |                                                                   |                                                                                                           |                                                                                   |                                                                  | building exposure is 0 in NRI                                                                                                                                             |
| Drought          | n/a                                         | \$0                                            | n/a                                 | n/a                                              | \$0                                                | n/a                                                                                              |                                                                   |                                                                                                           |                                                                                   |                                                                  | agriculture exposure is 0 in NRI                                                                                                                                          |
| Earthquake       | \$24,092,580,374                            | n/a                                            | 73,077                              | \$17,177,261                                     | n/a                                                | \$17,364,806                                                                                     | 0.0713%                                                           |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Hail             | \$14,098,421,504                            | \$49,522,037                                   | 73,073                              | \$6,617                                          | \$350                                              | \$1,027                                                                                          | under 0.0001%                                                     | \$1,000                                                                                                   |                                                                                   |                                                                  |                                                                                                                                                                           |
| Heat Wave        | \$13,773,836,606                            | \$49,522,037                                   | 71,087                              | \$0                                              | \$0                                                | \$0                                                                                              | 0%                                                                |                                                                                                           | \$0                                                                               |                                                                  |                                                                                                                                                                           |
| Hurricane        | \$14,097,293,034                            | \$49,522,037                                   | 73,065                              | \$37,266,542                                     | \$410,382                                          | \$2,008,200                                                                                      | 0.264%                                                            |                                                                                                           | \$0                                                                               | \$14,246,933.19                                                  |                                                                                                                                                                           |
| Inland Flooding  | \$14,084,731,032                            | \$28,991,483                                   | 15,195                              | \$6,258,255                                      | \$68,517                                           | \$600,675                                                                                        | n/a (see note)                                                    | \$34,200                                                                                                  |                                                                                   | \$2,135,076.50                                                   | NRI counts the full building value of any census block with some flood loss; this is not the value of buildings in the floodplain. Use local FIRM overlays for B2-a/B2-b. |
| Landslide        | \$2,252,882,102                             | n/a                                            | 17,096                              | \$6,883,727                                      | n/a                                                | \$469,639                                                                                        | 0.306%                                                            | \$3,500                                                                                                   |                                                                                   | \$2,135,076.50                                                   |                                                                                                                                                                           |
| Lightning        | \$14,098,421,504                            | n/a                                            | 73,073                              | \$27,464                                         | n/a                                                | \$752,104                                                                                        | 0.000195%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Strong Wind      | \$14,098,421,504                            | \$49,522,037                                   | 73,073                              | \$0                                              | \$0                                                | \$0                                                                                              | 0%                                                                | \$4,900                                                                                                   | \$4,500                                                                           |                                                                  | Storm Events damage since the plan includes 1 zone-level Strong Wind record (\$4,500): a NOAA non-thunderstorm wind type, outside NRI's Strong Wind definition.           |
| Tornado          | \$14,098,421,504                            | \$49,522,037                                   | 73,073                              | \$21,756                                         | \$28                                               | \$19,698                                                                                         | 0.000154%                                                         |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |
| Tsunami          | \$719,648,830                               | n/a                                            | 951                                 | \$372                                            | n/a                                                | \$0                                                                                              | under 0.0001%                                                     |                                                                                                           |                                                                                   |                                                                  |                                                                                                                                                                           |

| Hazard            | Building exposure<br><i>modeled dollars</i> | Agriculture exposure<br><i>modeled dollars</i> | Population exposed<br><i>people</i> | EAL buildings<br><i>modeled dollars per year</i> | EAL agriculture<br><i>modeled dollars per year</i> | Cost of expected deaths and injuries<br><i>FEMA's dollar value per year, not property damage</i> | EAL as % of exposure<br><i>buildings; agriculture where noted</i> | Storm Events damage since 2021-01-08<br><i>county-coded records, property plus crops, nominal dollars</i> | Zone-level damage since plan<br><i>property plus crops, reported for the zone</i> | Public Assistance since plan<br><i>nominal dollars; see note</i> | Note                                               |
|-------------------|---------------------------------------------|------------------------------------------------|-------------------------------------|--------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------|
| Volcanic Activity |                                             |                                                |                                     |                                                  |                                                    |                                                                                                  |                                                                   |                                                                                                           |                                                                                   |                                                                  | Not Applicable in NRI for this county              |
| Wildfire          | n/a                                         | n/a                                            | n/a                                 | n/a                                              | n/a                                                | n/a                                                                                              |                                                                   |                                                                                                           |                                                                                   |                                                                  | NRI publishes no building exposure for this county |
| Winter Weather    | \$0                                         | \$0                                            | 0                                   | \$0                                              | \$0                                                | \$0                                                                                              |                                                                   |                                                                                                           |                                                                                   |                                                                  | building exposure is 0 in NRI                      |

Totals since 2021-01-08 (Storm Events through 2026-06-30): 25 county-coded records, 25 with a damage value recorded (including \$0), \$43,600; 32 zone-level records, 31 with a damage value recorded (including \$0), \$29,000 reported for the zone; Public Assistance: \$14,246,933.19 on 4 counted declarations, 2 of them with Public Assistance.

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                                                                                                                                                                    | 73,073            |
| Building value (total, not at risk)                                                                                                                                           | \$14,098,421,504  |
| Agriculture value (total, not at risk)                                                                                                                                        | \$49,522,037      |
| NRI risk rating (all hazards)                                                                                                                                                 | Insufficient Data |
| Expected annual loss, buildings and agriculture, all hazards                                                                                                                  | \$68,210,577      |
| 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) | \$21,242,483      |
| Social vulnerability rating                                                                                                                                                   | Data Unavailable  |
| Community resilience rating                                                                                                                                                   | Data Unavailable  |
| NRI version                                                                                                                                                                   | December 2025     |

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

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

Supports FEMA checklist item B2-c: repetitive loss properties

Repetitive loss in this county, both definitions

Sources: 1, 4

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

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

Repeat-flood properties: county and state-level rows

Sources: 1, 4

| Scope                               | RL, FMA<br><i>properties</i> | SRL, FMA<br><i>properties</i> | RL, NFIP<br><i>properties</i> | SRL, NFIP<br><i>properties</i> | Any category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently insured<br><i>properties</i> |
|-------------------------------------|------------------------------|-------------------------------|-------------------------------|--------------------------------|-----------------------------------|--------------------------------|----------------------------------------|
| County total                        | 0                            | 0                             | 0                             | 0                              | 0                                 | 0                              | 0                                      |
| Statewide, no county in FEMA's file | 54                           | 165                           | 1,572                         | 158                            | 1,574                             | 0                              | 38                                     |

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<br>community ID | RL,<br>FMA<br><i>properties</i> | SRL,<br>FMA<br><i>properties</i> | RL,<br>NFIP<br><i>properties</i> | SRL,<br>NFIP<br><i>properties</i> | Any<br>category<br><i>properties</i> | Mitigated<br><i>properties</i> | Currently<br>insured<br><i>properties</i> | Note                                                                                                                          |
|-----------------------|----------------------|---------------------------------|----------------------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Mayagüez<br>Municipio | 720000               | 0                               | 0                                | 0                                | 0                                 | 0                                    | 0                              | 0                                         | Puerto Rico commonwealth community (720000): this row counts only its properties in this municipio, as the county table does. |

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

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

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

Sources: 1, 4

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

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

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

Exact counts; no count suppression.

---

## Sources

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

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](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](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_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/codes2020/national_place_by_county2020.txt), [https://www2.census.gov/geo/docs/reference/ct\\_change/ct\\_cou\\_to\\_cousub\\_crosswalk.xlsx](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

Reuse and citation: Hazard Plain text and tables are licensed under Creative Commons Attribution 4.0 International (CC BY 4.0, <https://creativecommons.org/licenses/by/4.0/>); credit Hazard Plain and the release. The underlying federal data are public domain; OpenFEMA data are also subject to the OpenFEMA terms and conditions.

Cite this: Hazard Plain (2026). Mayagüez Municipio, PR: risk-assessment baseline packet, release 2026-10 (data as of 2026-09-30; County FIPS 72097). Automated baseline. <https://hazardplain.org/pr/72097/> 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](mailto:contact@hazardplain.org)