



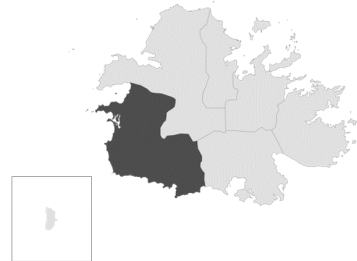
ANTIGUA & BARBUDA

SAINT MARY

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA SAINT MARY

Area: 59.05 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- High
Score: 0.470 • Rank: 2/8



RESILIENCE (R)

- Moderate
Score: 0.579 • Rank: 3/8



MULTI-HAZARD EXPOSURE (MHE)

- High
Score: 0.569 • Rank: 2/8



VULNERABILITY (V)

- Very Low
Score: 0.347 • Rank: 6/8



COPING CAPACITY (CC)

- Low
Score: 0.505 • Rank: 5/8



Population (2011 Census)
7,331



Prevalence of Chronic Illness
30.6%



Unemployment Rate
15.3%



Population with Unmet Housing Need
10.4%



Households with Internet Access
33.0%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 2 / 8 ASSESSED
SCORE: 0.569



MHE
0.569

Raw MHE
0.201

Relative MHE
0.936

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

5%

👤 417

Buildings Exposed: **5%**

Critical Infrastructure Exposed: **20%**



Hurricane Winds

100%

👤 8,160

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 8,160

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

67%

👤 5,470

Buildings Exposed: **70%**

Critical Infrastructure Exposed: **68%**



Extreme Heat

100%

👤 8,160

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

22%

👤 1,770

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **20%**



Flood

45%

👤 3,710

Buildings Exposed: **50%**

Critical Infrastructure Exposed: **32%**



Tsunami

22%

👤 1,770

Buildings Exposed: **21%**

Critical Infrastructure Exposed: **40%**

NOTE: Population exposure values for Antigua and Barbuda are estimated using PDC's AIM model. Values may differ from Census population.



MULTI-HAZARD EXPOSURE (MHE)

RANK: 2 / 8 ASSESSED
SCORE: 0.569

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Wildfire

2%

129

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **6%**



VULNERABILITY (V)

RANK: 6 / 8 ASSESSED
SCORE: 0.347

Vulnerability in Saint Mary is primarily driven by Information Access Vulnerability and Housing and Transportation Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.613** **RANK: 2/8 ASSESSED**

23.7%

Highest Education Primary School

76.5%

Households without Desktop Computer Access

33.0%

Households with Internet Access

75.9%

Households with Television Access

68.5%

Households with Radio Access



Economic Constraints

0  1 **SCORE: 0.390** **RANK: 5/8 ASSESSED**

0.48

Economic Dependency Ratio

70.9%

Labor Force Participation Rate

4.4%

Population Receiving Remittances

15.3%

Unemployment Rate



Environmental Stress

0  1 **SCORE: 0.167** **RANK: 6/8 ASSESSED**

27.3%

Coastline Exposure to Local or Global Threats

2.8%

Tree Cover Loss



Gender Inequality

0  1 **SCORE: 0.264** **RANK: 5/8 ASSESSED**

0.03

Female to Male Labor Ratio

0.23

Female to Male Secondary Education Attainment



VULNERABILITY (V)

RANK: 6 / 8 ASSESSED
SCORE: 0.347



Housing and Transportation Vulnerability

0  1 SCORE: 0.505 RANK: 3/8 ASSESSED

67.6%
Housing Built
Prior to 2000

5.1%
Household
Overcrowding

44.0%
Households
without Private
Vehicle

10.4%
Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.205 RANK: 4/8 ASSESSED

2.55
Prevalence of
Disability (per
100 persons)

30.6%
Prevalence of
Chronic Illness
(per 100
persons)

8.2%
Population
Age 65 and
Over

24.4%
Population
Under Age 15



Population Pressures

0  1 SCORE: 0.284 RANK: 4/8 ASSESSED

1.2%
Average Annual
Population
Change

124.2
Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 5 / 8 ASSESSED
SCORE: 0.526

Saint Mary exhibits weaker Island Capacity in the areas of Energy Capacity and Health Care Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.



Environmental Capacity

0  1 **SCORE: 0.276** **RANK: 5/8 ASSESSED**

37.7% Croplands	-13.20 Net Carbon Flux	43.7% Protected Terrestrial Area	34.0% Protected Coastlines
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Governance Capacity

0  1 **SCORE: 0.750** **RANK: 2/8 ASSESSED**

93.0% Household Waste Disposal	2.7% Prevalence of Crime
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Infrastructure Capacity

0  1 **SCORE: 0.449** **RANK: 5/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 0.581** **RANK: 4/8 ASSESSED**

41.5% Households with Fixed Phones	85.2% Households with Mobile Phones
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Emergency Services Capacity

0  1 **SCORE: 0.611** **RANK: 4/8 ASSESSED**

4.0 Average Distance to Fire Station (km)	2.5 Average Distance to Hospital or Clinic (km)	2.2 Average Distance to Police Station (km)	1.0 Average Distance to Shelter (km)
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Energy Capacity

0  1 **SCORE: 0.230** **RANK: 6/8 ASSESSED**

91.9% Household Access to Public Electricity	93.0% Households Using Gas for Cooking	6.5% Households with Generator
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Health Care Capacity

0  1 **SCORE: 0.376** **RANK: 5/8 ASSESSED**

52.1% Health Insurance Coverage	0.25 Hospitals and Clinics per 1,000 Persons
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LOGISTICS CAPACITY (LC)

RANK: 3 / 8 ASSESSED
SCORE: 0.485

Saint Mary exhibits weaker Logistics Capacity in the areas of Transportation Capacity and Air Support. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.



Maritime Logistics

0 1 **SCORE: 0.527** **RANK: 5/8 ASSESSED**

3.3 Average Distance to Seaport (km)	90.8 Distance to External Medium or Large Seaport (km)	0.02 Port Density (ports per km of coastline)
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Air Support

0 1 **SCORE: 0.490** **RANK: 4/8 ASSESSED**

87.5 Distance to External C130 Airport (km)	4.0 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0 1 **SCORE: 0.175** **RANK: 7/8 ASSESSED**

0.25 Gas Stations per 1,000 Persons	2.4 Road Density (km of roads per sq km)
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Warehouse Access

0 1 **SCORE: 0.746** **RANK: 3/8 ASSESSED**

8.7 Average Distance to Warehouse (km)	2.7 Distance to CDEMA Sub- Regional Focal Point (km)
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COPING CAPACITY (CC)

Coping Capacity measures the systems, means, and abilities of people and societies to absorb and respond to disruptions in normal function. Coping Capacity of Antigua & Barbuda was calculated by using a combination of Island Capacity and Logistics Capacity.

RANK: 5 / 8 ASSESSED
SCORE: 0.505



RESILIENCE (R)

Resilience in Antigua & Barbuda was calculated by using a combination of Vulnerability and Coping Capacity (including both Island Capacity and Logistics Capacity).

RANK: 3 / 8 ASSESSED
SCORE: 0.579

KEY FACTORS INFLUENCING RESILIENCE

Saint Mary's score and ranking are due to Very Low Vulnerability combined with Low Coping Capacity scores.

Below are the four thematic areas with the weakest relative scores:



Information Access Vulnerability

Limitations in information access can impede a population's ability to receive, understand, and take action. Emergency messages must take into account the unique information access constraints of the region. Emergency messages presented to the population must contain clear and simple information to ensure an appropriate response to save lives and reduce losses.



Housing and Transportation Vulnerability

Populations living in older housing, and prior to the enactment of modern building codes, are more susceptible to structural damage and losses as a result of hazard impacts. In addition, higher density living situations such as crowded housing, as well as populations with unmet housing needs, increase susceptibility to negative consequences as a result of hazard exposure. Populations with limited vehicle access are more likely to experience mobility challenges during an evacuation, and have difficulty accessing needed supplies and services before, during and after a hazard event.



Transportation Capacity

Dense road networks and refueling locations facilitate the evacuation of populations during a disaster and increase the ability of response stakeholders to access affected populations. Improved transportation capacity supports the ability to distribute resources before, during, and after a disaster.

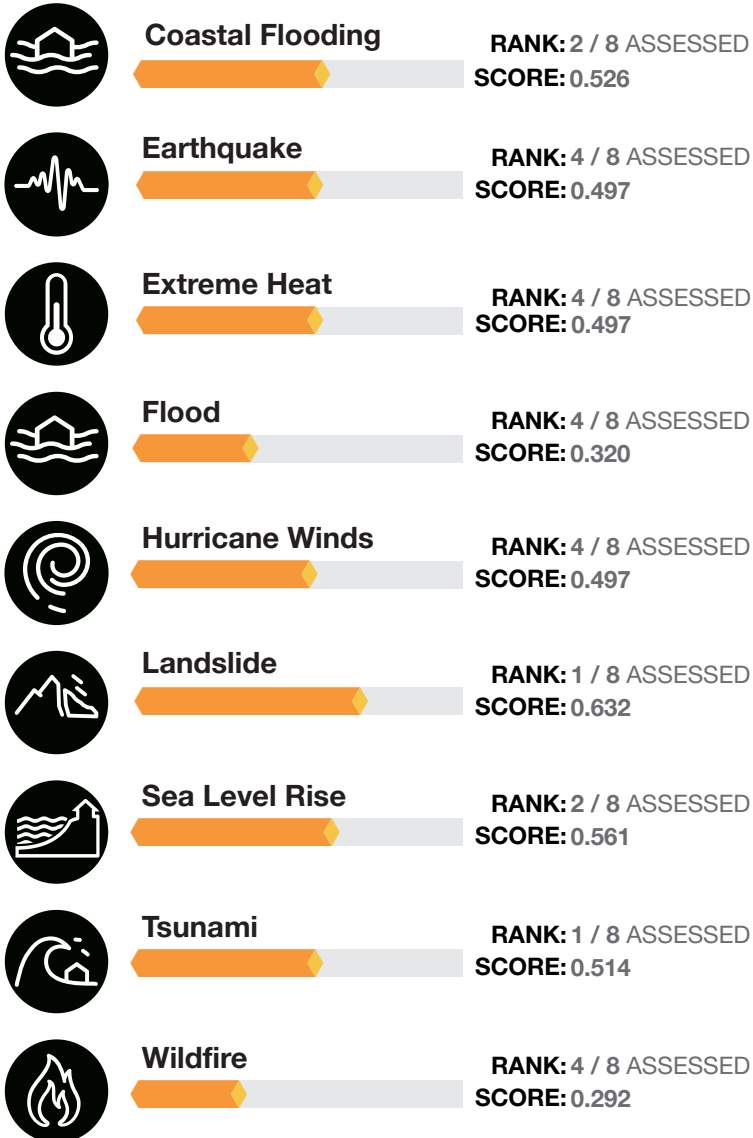


Air Support

Air transport is a key component of timely response operations, supporting search and rescue, damage assessment efforts, and the delivery of relief supplies. Increasing air support capacity to accommodate C130 aircraft strengthens the ability to quickly deliver and disseminate emergency relief supplies to where they are most needed.



HAZARD-SPECIFIC RISK (HSR)





MULTI-HAZARD RISK (MHR)

2 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.470



Saint Mary's score and ranking are due to High Multi-Hazard Exposure combined with Very Low Vulnerability and Low Coping Capacity scores.

Multi-Hazard Risk component scores compared to overall average country scores:

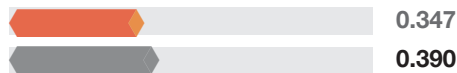
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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