



NDPBA

ANTIGUA AND BARBUDA PARISH RISK PROFILES



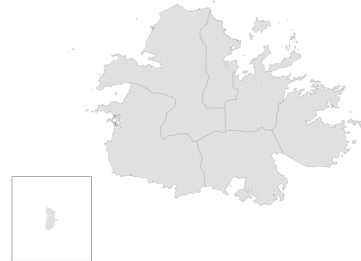
ANTIGUA & BARBUDA

BARBUDA

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA BARBUDA

Area: 160.58 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Moderate

Score: 0.463 • Rank: 3/8



RESILIENCE (R)

- Very Low

Score: 0.527 • Rank: 6/8



MULTI-HAZARD EXPOSURE (MHE)

- Low

Score: 0.443 • Rank: 4/8



VULNERABILITY (V)

- Very High

Score: 0.558 • Rank: 1/8



COPING CAPACITY (CC)

- High

Score: 0.612 • Rank: 2/8



Population (2011 Census)

1,625



Prevalence of Chronic Illness

32.5%



Unemployment Rate

7.4%



Population with Unmet Housing Need

12.5%



Households with Internet Access

31.9%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 4 / 8 ASSESSED
SCORE: 0.443



MHE
0.443

Raw MHE
0.040

Relative MHE
0.845

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

10%

1,195

Buildings Exposed: **11%**

Critical Infrastructure Exposed: **33%**



Hurricane Winds

100%

1,950

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

1,950

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Extreme Heat

100%

1,950

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

15%

288

Buildings Exposed: **7%**

Critical Infrastructure Exposed: **32%**



Flood

99%

1,940

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Tsunami

15%

288

Buildings Exposed: **16%**

Critical Infrastructure Exposed: **58%**

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: 4 / 8 ASSESSED
SCORE: 0.443

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Wildfire

<1%

2

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 1 / 8 ASSESSED
SCORE: 0.558

Vulnerability in Barbuda is primarily driven by Housing and Transportation Vulnerability and Economic Constraints. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.567** **RANK: 3/8 ASSESSED**

7.8% Highest Education Primary School	85.7% Households without Desktop Computer Access	31.9% Households with Internet Access	76.9% Households with Television Access	63.3% Households with Radio Access
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Economic Constraints

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

0.55 Economic Dependency Ratio	63.7% Labor Force Participation Rate	11.0% Population Receiving Remittances	7.4% Unemployment Rate
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Environmental Stress

0  1 **SCORE: 0.054** **RANK: 8/8 ASSESSED**

15.5% Coastline Exposure to Local or Global Threats	1.7% Tree Cover Loss
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Gender Inequality

0  1 **SCORE: 0.629** **RANK: 1/8 ASSESSED**

0.06 Female to Male Labor Ratio	0.30 Female to Male Secondary Education Attainment
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VULNERABILITY (V)

RANK: 1 / 8 ASSESSED
SCORE: 0.558



Housing and Transportation Vulnerability

0  1 SCORE: 0.853 RANK: 1/8 ASSESSED

74.3%

Housing Built
Prior to 2000

4.6%

Household
Overcrowding

61.3%

Households
without Private
Vehicle

12.5%

Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.551 RANK: 2/8 ASSESSED

4.83

Prevalence of
Disability (per
100 persons)

32.5%

Prevalence of
Chronic Illness
(per 100
persons)

7.2%

Population
Age 65 and
Over

28.4%

Population
Under Age 15



Population Pressures

0  1 SCORE: 0.500 RANK: 3/8 ASSESSED

2.5%

Average Annual
Population
Change

10.1

Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 1 / 8 ASSESSED
SCORE: 0.760

Barbuda exhibits weaker Island Capacity in the areas of Emergency Services Capacity and Health Care Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.



Environmental Capacity

0  1 **SCORE: 0.520** **RANK: 2/8 ASSESSED**

0.0% Croplands	-39.30 Net Carbon Flux	24.3% Protected Terrestrial Area	85.3% Protected Coastlines
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Governance Capacity

0  1 **SCORE: 0.813** **RANK: 1/8 ASSESSED**

97.3% Household Waste Disposal	3.9% Prevalence of Crime
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Infrastructure Capacity

0  1 **SCORE: 0.786** **RANK: 1/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 1.000** **RANK: 1/8 ASSESSED**

50.4% Households with Fixed Phones	90.6% Households with Mobile Phones
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Emergency Services Capacity

0  1 **SCORE: 0.330** **RANK: 6/8 ASSESSED**

2.4 Average Distance to Fire Station (km)	2.7 Average Distance to Hospital or Clinic (km)	2.5 Average Distance to Police Station (km)	2.6 Average Distance to Shelter (km)
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Energy Capacity

0  1 **SCORE: 1.000** **RANK: 1/8 ASSESSED**

95.8% Household Access to Public Electricity	97.3% Households Using Gas for Cooking	16.5% Households with Generator
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Health Care Capacity

0  1 **SCORE: 0.815** **RANK: 1/8 ASSESSED**

56.3% Health Insurance Coverage	0.51 Hospitals and Clinics per 1,000 Persons
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LOGISTICS CAPACITY (LC)

RANK: 6 / 8 ASSESSED
SCORE: 0.463

Barbuda exhibits weaker Logistics Capacity in the areas of Maritime Logistics and Transportation Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.



Maritime Logistics

0 1 **SCORE: 0.370** **RANK: 6/8 ASSESSED**

1.4 Average Distance to Seaport (km)	146.6 Distance to External Medium or Large Seaport (km)	0.03 Port Density (ports per km of coastline)
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Air Support

0 1 **SCORE: 0.500** **RANK: 3/8 ASSESSED**

96.0 Distance to External C130 Airport (km)	1.5 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0 1 **SCORE: 0.389** **RANK: 4/8 ASSESSED**

0.51 Gas Stations per 1,000 Persons	0.5 Road Density (km of roads per sq km)
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Warehouse Access

0 1 **SCORE: 0.596** **RANK: 5/8 ASSESSED**

2.6 Average Distance to Warehouse (km)	45.1 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: 2 / 8 ASSESSED
SCORE: 0.612



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: 6 / 8 ASSESSED
SCORE: 0.527

KEY FACTORS INFLUENCING RESILIENCE

Barbuda's score and ranking are due to Very High Vulnerability combined with High Coping Capacity scores.

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



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.



Economic Constraints

Economic constraints have individual, household, community, and region-wide influence. Limitations on available financial resources reduce opportunities to invest in mitigation and preparedness measures and limit the ability to facilitate short- and long-term recovery.



Maritime Logistics

Diverse maritime transport options, within and outside the country, offer crucial support for humanitarian efforts and the transit and delivery of disaster relief supplies. Protecting and maintaining port infrastructure and equipment can help safeguard these key assets and sustain functional operations during a disaster.

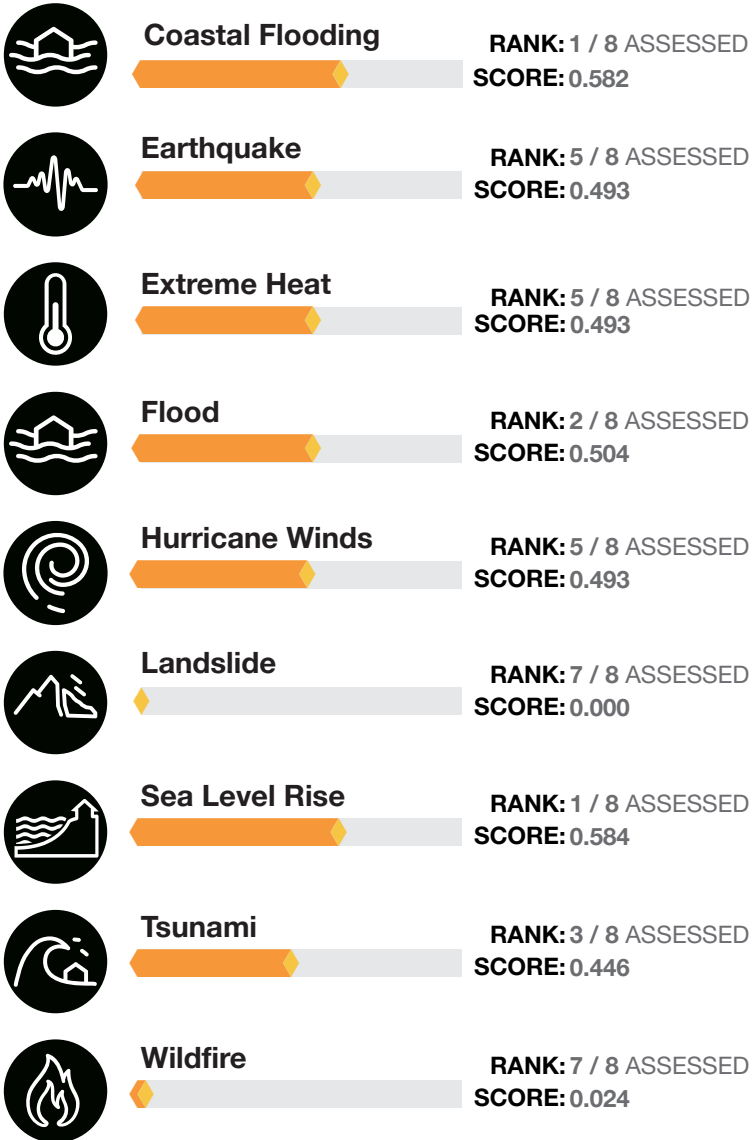


Transportation Capacity

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.



HAZARD-SPECIFIC RISK (HSR)





MULTI-HAZARD RISK (MHR)

3 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.463



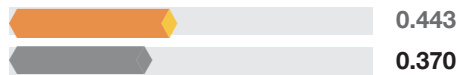
Barbuda's score and ranking are due to Low Multi-Hazard Exposure combined with Very High Vulnerability and High Coping Capacity scores.

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

DEPENDENCY SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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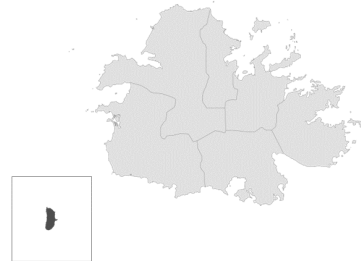
ANTIGUA & BARBUDA
REDONDA

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA REDONDA

Area: 1.5 km²

Limited data availability for the unpopulated Redonda Dependency precludes the calculation of a comprehensive risk analysis for the island. The indicators below summarize available data across a limited number of the RVA's thematic areas. Note that Logistics Capacity is the only Index calculated for Redonda, based on available data.



Population (2011 Census)

0



VULNERABILITY (V)



Environmental Stress

0  1 SCORE: 1.000 RANK: 1/8 ASSESSED

No Data 17.0%

Coastline Exposure to Local or Global Threats	Tree Cover Loss
---	-----------------



ISLAND CAPACITY (IC)



Environmental Capacity

0  1 SCORE: 0.506 RANK: 3/8 ASSESSED

0.0%
Croplands

-0.06
Net Carbon
Flux

1.0%
Protected
Terrestrial Area

100%
Protected
Coastlines



LOGISTICS CAPACITY (LC)

RANK: 8 / 8 ASSESSED
SCORE: 0.315



Maritime Logistics

0 1 **SCORE: 0.258** **RANK: 8/8 ASSESSED**

No Data Average Distance to Seaport (km)	116.2 Distance to External Medium or Large Seaport (km)	0.00 Port Density (ports per km of coastline)
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Air Support

0 1 **SCORE: 1.000** **RANK: 1/8 ASSESSED**

56.6 Distance to External C130 Airport (km)	No Data Average Distance to Airport or Heliport (km)
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Transportation Capacity

0 1 **SCORE: 0.000** **RANK: 8/8 ASSESSED**

No Data Gas Stations per 1,000 Persons	0.0 Road Density (km of roads per sq km)
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Warehouse Access

0 1 **SCORE: 0.000** **RANK: 8/8 ASSESSED**

No Data Average Distance to Warehouse (km)	55.7 Distance to CDEMA Sub-Regional Focal Point (km)
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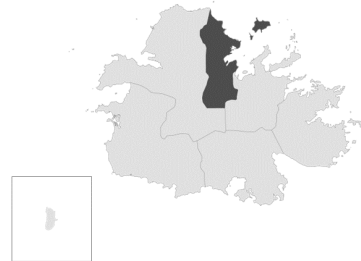
ANTIGUA & BARBUDA

SAINT GEORGE

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA SAINT GEORGE

Area: 23.96 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very Low
Score: 0.274 • Rank: 7/8



RESILIENCE (R)

- Very High
Score: 0.654 • Rank: 1/8



MULTI-HAZARD EXPOSURE (MHE)

- Very Low
Score: 0.130 • Rank: 6/8



VULNERABILITY (V)

- Very Low
Score: 0.330 • Rank: 7/8



COPING CAPACITY (CC)

- Very High
Score: 0.638 • Rank: 1/8



Population (2011 Census)

7,976



Prevalence of Chronic Illness

32.2%



Unemployment Rate

18.1%



Population with Unmet Housing Need

6.8%



Households with Internet Access

48.9%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 6 / 8 ASSESSED
SCORE: 0.130



MHE
0.130

Raw MHE
0.078

Relative MHE
0.182

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

2%

👤 149

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **14%**



Hurricane Winds

100%

👤 7,320

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 7,320

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

5%

👤 375

Buildings Exposed: **7%**

Critical Infrastructure Exposed: **8%**



Extreme Heat

100%

👤 7,320

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

14%

👤 1,030

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **13%**



Flood

27%

👤 1,980

Buildings Exposed: **33%**

Critical Infrastructure Exposed: **15%**



Tsunami

14%

👤 1,030

Buildings Exposed: **13%**

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: 6 / 8 ASSESSED
SCORE: 0.130

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Wildfire

<1%

17

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 7 / 8 ASSESSED
SCORE: 0.330

Vulnerability in Saint George is primarily driven by Environmental Stress and Population Pressures. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0 1 **SCORE: 0.119** **RANK: 7/8 ASSESSED**

13.3% Highest Education Primary School	62.0% Households without Desktop Computer Access	48.9% Households with Internet Access	76.4% Households with Television Access	71.5% Households with Radio Access
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Economic Constraints

0 1 **SCORE: 0.445** **RANK: 3/8 ASSESSED**

0.45 Economic Dependency Ratio	66.0% Labor Force Participation Rate	3.8% Population Receiving Remittances	18.1% Unemployment Rate
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Environmental Stress

0 1 **SCORE: 0.804** **RANK: 2/8 ASSESSED**

83.9% Coastline Exposure to Local or Global Threats	11.0% Tree Cover Loss
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Gender Inequality

0 1 **SCORE: 0.084** **RANK: 7/8 ASSESSED**

0.05 Female to Male Labor Ratio	0.15 Female to Male Secondary Education Attainment
---	--



VULNERABILITY (V)

RANK: 7 / 8 ASSESSED
SCORE: 0.330



Housing and Transportation Vulnerability

0  1 SCORE: 0.053 RANK: 7/8 ASSESSED

64.4%

Housing Built
Prior to 2000

3.5%

Household
Overcrowding

28.2%

Households
without Private
Vehicle

6.8%

Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.153 RANK: 6/8 ASSESSED

2.35

Prevalence of
Disability (per
100 persons)

32.2%

Prevalence of
Chronic Illness
(per 100
persons)

8.3%

Population
Age 65 and
Over

22.9%

Population
Under Age 15



Population Pressures

0  1 SCORE: 0.655 RANK: 2/8 ASSESSED

2.1%

Average Annual
Population
Change

332.9

Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 2 / 8 ASSESSED
SCORE: 0.637

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



Environmental Capacity

0  1 **SCORE: 0.275** **RANK: 6/8 ASSESSED**

7.7% Croplands	0.91 Net Carbon Flux	10.5% Protected Terrestrial Area	99.4% Protected Coastlines
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Governance Capacity

0  1 **SCORE: 0.723** **RANK: 4/8 ASSESSED**

93.9% Household Waste Disposal	3.2% Prevalence of Crime
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Infrastructure Capacity

0  1 **SCORE: 0.673** **RANK: 2/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 0.873** **RANK: 2/8 ASSESSED**

50.2% Households with Fixed Phones	86.0% Households with Mobile Phones
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Emergency Services Capacity

0  1 **SCORE: 0.626** **RANK: 3/8 ASSESSED**

2.4 Average Distance to Fire Station (km)	2.0 Average Distance to Hospital or Clinic (km)	2.1 Average Distance to Police Station (km)	1.8 Average Distance to Shelter (km)
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Energy Capacity

0  1 **SCORE: 0.657** **RANK: 2/8 ASSESSED**

95.0% Household Access to Public Electricity	93.9% Households Using Gas for Cooking	11.7% Households with Generator
--	--	---



Health Care Capacity

0  1 **SCORE: 0.538** **RANK: 2/8 ASSESSED**

55.6% Health Insurance Coverage	0.14 Hospitals and Clinics per 1,000 Persons
---	--



LOGISTICS CAPACITY (LC)

RANK: 2 / 8 ASSESSED
SCORE: 0.64

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



Maritime Logistics

0  1 **SCORE: 0.748** **RANK: 2/8 ASSESSED**

3.0 Average Distance to Seaport (km)	97.9 Distance to External Medium or Large Seaport (km)	0.19 Port Density (ports per km of coastline)
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Air Support

0  1 **SCORE: 0.454** **RANK: 5/8 ASSESSED**

94.5 Distance to External C130 Airport (km)	2.9 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0  1 **SCORE: 0.474** **RANK: 3/8 ASSESSED**

0.27 Gas Stations per 1,000 Persons	6.9 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.883** **RANK: 2/8 ASSESSED**

5.7 Average Distance to Warehouse (km)	0.0 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: 1 / 8 ASSESSED
SCORE: 0.638



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: 1 / 8 ASSESSED
SCORE: 0.654

KEY FACTORS INFLUENCING RESILIENCE

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

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



Environmental Stress

Environmental stressors such as the depletion or contamination of natural resources can exacerbate natural hazards and negatively impact the health, safety, and economic security of the population.



Population Pressures

Rapid changes in population size and distribution can alter population vulnerability characteristics presenting planning challenges and destabilizing social, economic, and environmental systems. Increased population pressures require disaster managers to realign needs, institutional structures, and available resources to support delivery of basic resources before, during, and after an event.



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.

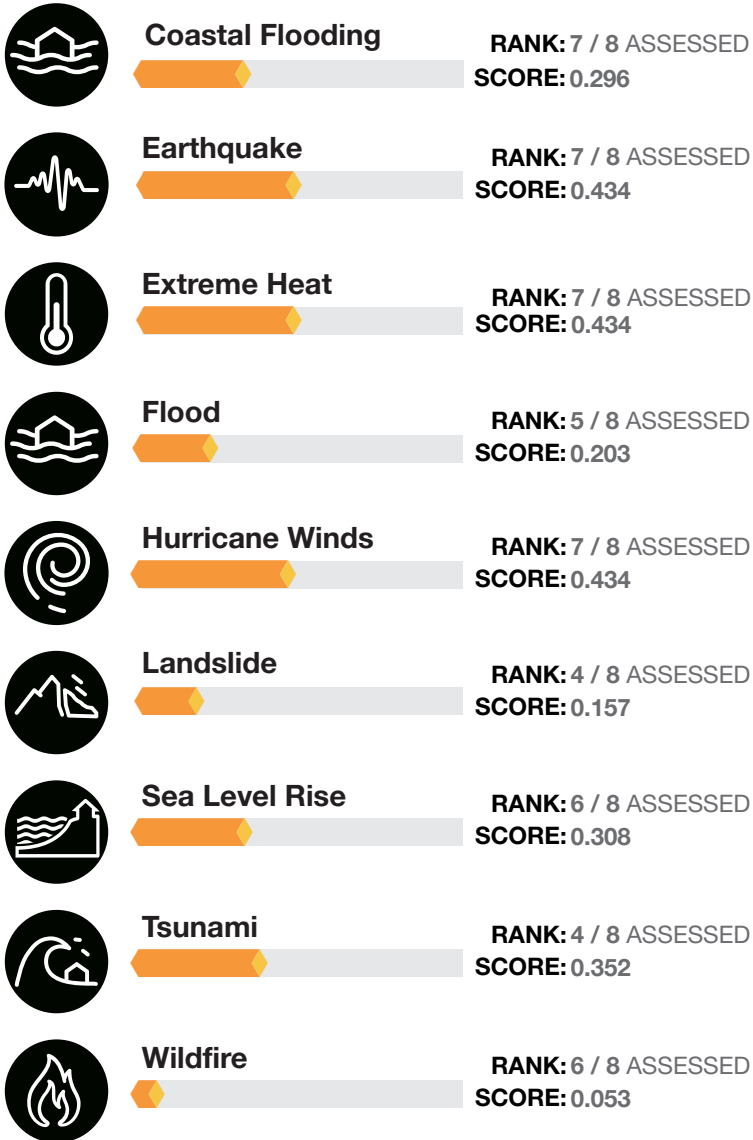


Transportation Capacity

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.



HAZARD-SPECIFIC RISK (HSR)





MULTI-HAZARD RISK (MHR)

7 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.274



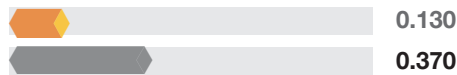
Saint George's score and ranking are due to Very Low Multi-Hazard Exposure combined with Very Low Vulnerability and Very High Coping Capacity scores.

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

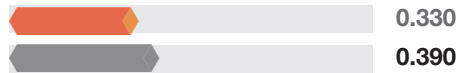
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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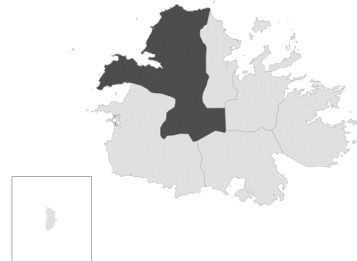
ANTIGUA & BARBUDA

SAINT JOHN

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA SAINT JOHN

Area: 73.82 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very High
Score: 0.508 • Rank: 1/8



RESILIENCE (R)

- High
Score: 0.613 • Rank: 2/8



MULTI-HAZARD EXPOSURE (MHE)

- Very High
Score: 0.748 • Rank: 1/8



VULNERABILITY (V)

- Low
Score: 0.350 • Rank: 5/8



COPING CAPACITY (CC)

- Moderate
Score: 0.575 • Rank: 3/8



Population (2011 Census)

51,129



Prevalence of Chronic Illness

31.0%



Unemployment Rate

12.3%



Population with Unmet Housing Need

9.8%



Households with Internet Access

37.8%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 1 / 8 ASSESSED
SCORE: 0.748



MHE
0.748

Raw MHE
1.000

Relative MHE
0.497

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

1%

👤 478

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **7%**



Hurricane Winds

100%

👤 63,900

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 63,900

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

7%

👤 4,240

Buildings Exposed: **6%**

Critical Infrastructure Exposed: **7%**



Extreme Heat

100%

👤 63,900

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

8%

👤 5,400

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **6%**



Flood

71%

👤 45,200

Buildings Exposed: **76%**

Critical Infrastructure Exposed: **80%**



Tsunami

8%

👤 5,400

Buildings Exposed: **12%**

Critical Infrastructure Exposed: **19%**

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: 1 / 8 ASSESSED
SCORE: 0.748

ESTIMATED EXPOSURE TO EACH HAZARD *(CONTINUED)*:



Wildfire

2%

1,490

Buildings Exposed: **2%**

Critical Infrastructure Exposed: **8%**



VULNERABILITY (V)

RANK: 5 / 8 ASSESSED
SCORE: 0.350

Vulnerability in Saint John is primarily driven by Population Pressures and Information Access Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.459** **RANK: 5/8 ASSESSED**

14.0% Highest Education Primary School	70.5% Households without Desktop Computer Access	37.8% Households with Internet Access	77.6% Households with Television Access	61.9% Households with Radio Access
--	--	---	---	--



Economic Constraints

0  1 **SCORE: 0.252** **RANK: 6/8 ASSESSED**

0.46 Economic Dependency Ratio	72.7% Labor Force Participation Rate	5.0% Population Receiving Remittances	12.3% Unemployment Rate
--	--	---	-----------------------------------



Environmental Stress

0  1 **SCORE: 0.255** **RANK: 5/8 ASSESSED**

7.2% Coastline Exposure to Local or Global Threats	9.5% Tree Cover Loss
--	--------------------------------



Gender Inequality

0  1 **SCORE: 0.257** **RANK: 6/8 ASSESSED**

0.09 Female to Male Labor Ratio	0.16 Female to Male Secondary Education Attainment
---	--



VULNERABILITY (V)

RANK: 5 / 8 ASSESSED
SCORE: 0.350



Housing and Transportation Vulnerability

0  1 SCORE: 0.354 RANK: 5/8 ASSESSED

64.6%

Housing Built
Prior to 2000

4.9%

Household
Overcrowding

38.9%

Households
without Private
Vehicle

9.8%

Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.106 RANK: 7/8 ASSESSED

2.24

Prevalence of
Disability (per
100 persons)

31.0%

Prevalence of
Chronic Illness
(per 100
persons)

7.4%

Population
Age 65 and
Over

24.0%

Population
Under Age 15



Population Pressures

0  1 SCORE: 0.765 RANK: 1/8 ASSESSED

1.5%

Average Annual
Population
Change

692.7

Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 3 / 8 ASSESSED
SCORE: 0.476

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



Environmental Capacity

0  1 **SCORE: 0.037** **RANK: 8/8 ASSESSED**

50.6% Croplands	-3.21 Net Carbon Flux	0.8% Protected Terrestrial Area	7.6% Protected Coastlines
---------------------------	---------------------------------	---	-------------------------------------



Governance Capacity

0  1 **SCORE: 0.422** **RANK: 6/8 ASSESSED**

95.9% Household Waste Disposal	5.8% Prevalence of Crime
--	------------------------------------



Infrastructure Capacity

0  1 **SCORE: 0.620** **RANK: 3/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 0.388** **RANK: 6/8 ASSESSED**

34.3% Households with Fixed Phones	86.4% Households with Mobile Phones
--	---



Emergency Services Capacity

0  1 **SCORE: 1.000** **RANK: 1/8 ASSESSED**

2.3 Average Distance to Fire Station (km)	0.9 Average Distance to Hospital or Clinic (km)	1.5 Average Distance to Police Station (km)	0.8 Average Distance to Shelter (km)
---	---	---	--



Energy Capacity

0  1 **SCORE: 0.575** **RANK: 3/8 ASSESSED**

93.2% Household Access to Public Electricity	95.9% Households Using Gas for Cooking	10.7% Households with Generator
--	--	---



Health Care Capacity

0  1 **SCORE: 0.516** **RANK: 3/8 ASSESSED**

48.9% Health Insurance Coverage	0.81 Hospitals and Clinics per 1,000 Persons
---	--



LOGISTICS CAPACITY (LC)

RANK: 1 / 8 ASSESSED
SCORE: 0.674

Saint John 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: 0.712** **RANK: 3/8 ASSESSED**

3.1 Average Distance to Seaport (km)	95.5 Distance to External Medium or Large Seaport (km)	0.16 Port Density (ports per km of coastline)
--	--	---



Air Support

0  1 **SCORE: 0.514** **RANK: 2/8 ASSESSED**

86.1 Distance to External C130 Airport (km)	3.9 Average Distance to Airport or Heliport (km)
---	--



Transportation Capacity

0  1 **SCORE: 0.500** **RANK: 2/8 ASSESSED**

0.22 Gas Stations per 1,000 Persons	8.4 Road Density (km of roads per sq km)
---	--



Warehouse Access

0  1 **SCORE: 0.969** **RANK: 1/8 ASSESSED**

3.4 Average Distance to Warehouse (km)	0.0 Distance to CDEMA Sub-Regional Focal Point (km)
--	---



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: 3 / 8 ASSESSED
SCORE: 0.575



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: 2 / 8 ASSESSED
SCORE: 0.613

KEY FACTORS INFLUENCING RESILIENCE

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

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



Population Pressures

Rapid changes in population size and distribution can alter population vulnerability characteristics presenting planning challenges and destabilizing social, economic, and environmental systems. Increased population pressures require disaster managers to realign needs, institutional structures, and available resources to support delivery of basic resources before, during, and after an event.



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.



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.

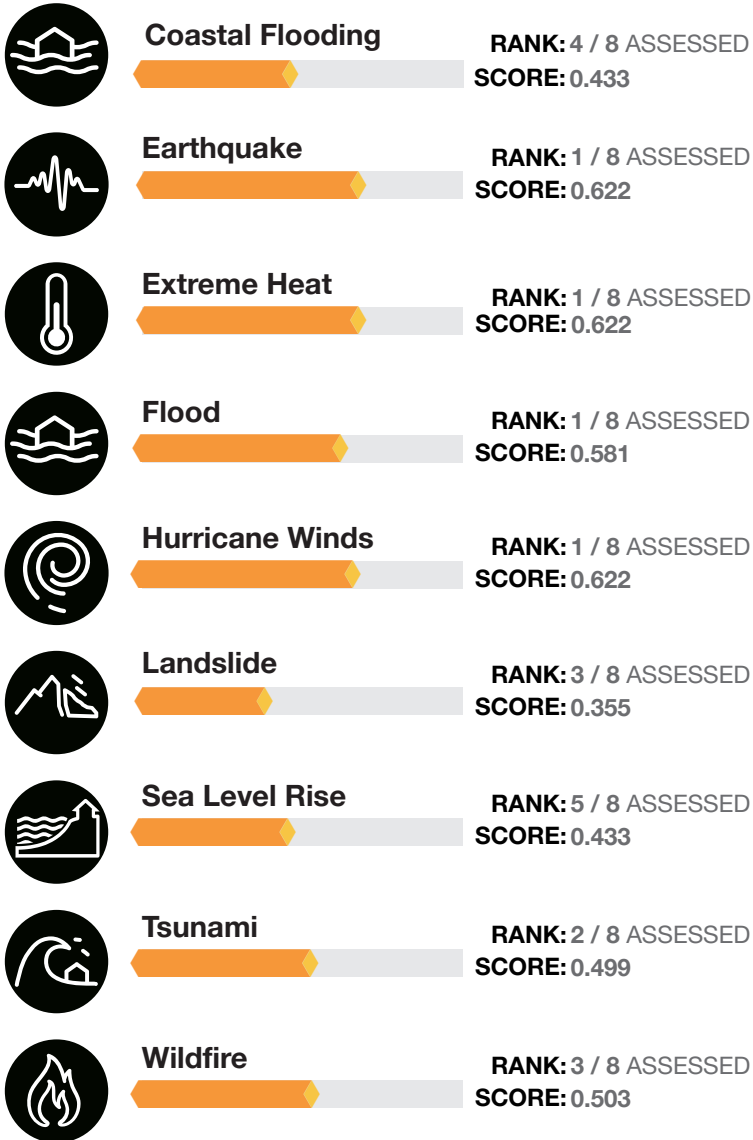


Air Support

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)

1 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.508



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

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

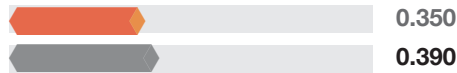
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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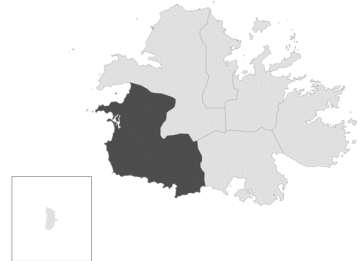
ANTIGUA & BARBUDA

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
---------------------------	----------------------------------	--	--------------------------------------



Governance Capacity

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

93.0% Household Waste Disposal	2.7% Prevalence of Crime
--	------------------------------------



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
--	---



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)
---	---	---	--



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
--	--	--



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
---	--



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)
--	--	---



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)
---	---



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)
---	--



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)
---	---



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.

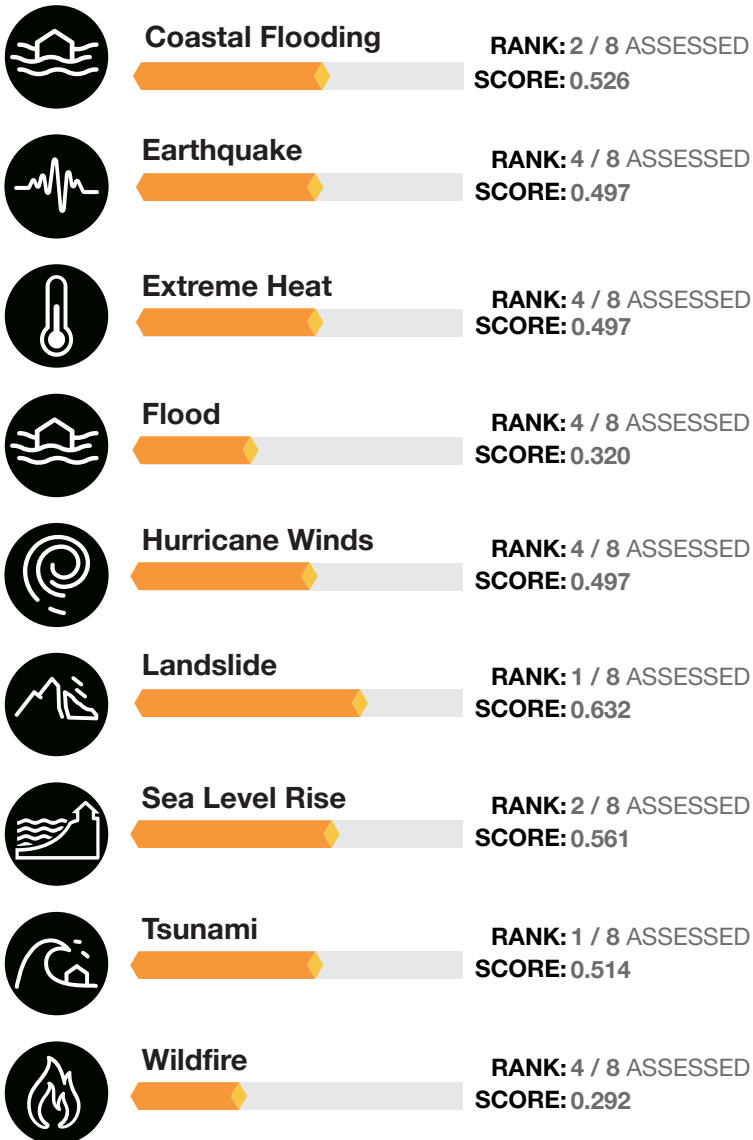


Air Support

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:

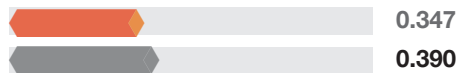
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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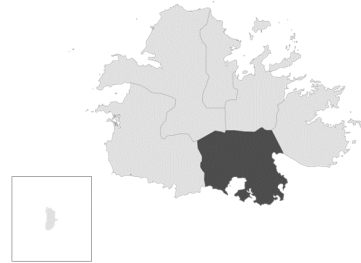
ANTIGUA & BARBUDA

SAINT PAUL

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA SAINT PAUL

Area: 47.92 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Moderate

Score: 0.463 • Rank: 3/8



RESILIENCE (R)

- Low

Score: 0.566 • Rank: 4/8



MULTI-HAZARD EXPOSURE (MHE)

- Moderate

Score: 0.520 • Rank: 3/8



VULNERABILITY (V)

- High

Score: 0.407 • Rank: 2/8



COPING CAPACITY (CC)

- Low

Score: 0.539 • Rank: 4/8



Population (2011 Census)

8,116



Prevalence of Chronic Illness

29.6%



Unemployment Rate

20.6%



Population with Unmet Housing Need

13.1%



Households with Internet Access

36.3%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 3 / 8 ASSESSED
SCORE: 0.520



MHE
0.520

Raw MHE
0.169

Relative MHE
0.871

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

3%

👤 228

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **31%**



Hurricane Winds

100%

👤 8,070

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 8,070

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

37%

👤 2,960

Buildings Exposed: **31%**

Critical Infrastructure Exposed: **29%**



Extreme Heat

100%

👤 8,070

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

9%

👤 699

Buildings Exposed: **2%**

Critical Infrastructure Exposed: **27%**



Flood

73%

👤 5,860

Buildings Exposed: **79%**

Critical Infrastructure Exposed: **65%**



Tsunami

9%

👤 699

Buildings Exposed: **11%**

Critical Infrastructure Exposed: **33%**

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: 3 / 8 ASSESSED
SCORE: 0.520

ESTIMATED EXPOSURE TO EACH HAZARD *(CONTINUED)*:



Wildfire

1%

79

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 2 / 8 ASSESSED
SCORE: 0.407

Vulnerability in Saint Paul is primarily driven by Housing and Transportation Vulnerability and Gender Inequality. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0 1 **SCORE: 0.461** **RANK: 4/8 ASSESSED**

19.7% Highest Education Primary School	74.0% Households without Desktop Computer Access	36.3% Households with Internet Access	79.9% Households with Television Access	67.3% Households with Radio Access
--	--	---	---	--



Economic Constraints

0 1 **SCORE: 0.518** **RANK: 2/8 ASSESSED**

0.48 Economic Dependency Ratio	67.7% Labor Force Participation Rate	3.7% Population Receiving Remittances	20.6% Unemployment Rate
--	--	---	-----------------------------------



Environmental Stress

0 1 **SCORE: 0.062** **RANK: 7/8 ASSESSED**

15.7% Coastline Exposure to Local or Global Threats	1.9% Tree Cover Loss
---	--------------------------------



Gender Inequality

0 1 **SCORE: 0.600** **RANK: 2/8 ASSESSED**

0.10 Female to Male Labor Ratio	0.25 Female to Male Secondary Education Attainment
---	--



VULNERABILITY (V)

RANK: 2 / 8 ASSESSED
SCORE: 0.407



Housing and Transportation Vulnerability

0  1 SCORE: 0.727 RANK: 2/8 ASSESSED

70.3%
Housing Built
Prior to 2000

6.4%
Household
Overcrowding

38.3%
Households
without Private
Vehicle

13.1%
Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.212 RANK: 3/8 ASSESSED

2.98
Prevalence of
Disability (per
100 persons)

29.6%
Prevalence of
Chronic Illness
(per 100
persons)

7.8%
Population
Age 65 and
Over

24.5%
Population
Under Age 15



Population Pressures

0  1 SCORE: 0.270 RANK: 5/8 ASSESSED

1.0%
Average Annual
Population
Change

169.4
Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 4 / 8 ASSESSED
SCORE: 0.606

Saint Paul 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: 0.471** **RANK: 4/8 ASSESSED**

5.0% Croplands	-6.34 Net Carbon Flux	40.7% Protected Terrestrial Area	84.8% Protected Coastlines
--------------------------	---------------------------------	--	--------------------------------------



Governance Capacity

0  1 **SCORE: 0.705** **RANK: 5/8 ASSESSED**

96.9% Household Waste Disposal	4.4% Prevalence of Crime
--	------------------------------------



Infrastructure Capacity

0  1 **SCORE: 0.578** **RANK: 4/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 0.635** **RANK: 3/8 ASSESSED**

41.7% Households with Fixed Phones	87.0% Households with Mobile Phones
--	---



Emergency Services Capacity

0  1 **SCORE: 0.767** **RANK: 2/8 ASSESSED**

4.6 Average Distance to Fire Station (km)	1.8 Average Distance to Hospital or Clinic (km)	1.7 Average Distance to Police Station (km)	1.0 Average Distance to Shelter (km)
---	---	---	--



Energy Capacity

0  1 **SCORE: 0.399** **RANK: 4/8 ASSESSED**

91.6% Household Access to Public Electricity	96.9% Households Using Gas for Cooking	7.8% Households with Generator
--	--	--



Health Care Capacity

0  1 **SCORE: 0.510** **RANK: 4/8 ASSESSED**

53.0% Health Insurance Coverage	0.37 Hospitals and Clinics per 1,000 Persons
---	--



LOGISTICS CAPACITY (LC)

RANK: 5 / 8 ASSESSED
SCORE: 0.471

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



Maritime Logistics

0 1 **SCORE: 0.930** **RANK: 1/8 ASSESSED**

2.3 Average Distance to Seaport (km)	87.7 Distance to External Medium or Large Seaport (km)	0.23 Port Density (ports per km of coastline)
--	--	---



Air Support

0 1 **SCORE: 0.157** **RANK: 7/8 ASSESSED**

84.3 Distance to External C130 Airport (km)	12.1 Average Distance to Airport or Heliport (km)
---	--



Transportation Capacity

0 1 **SCORE: 0.251** **RANK: 5/8 ASSESSED**

0.25 Gas Stations per 1,000 Persons	3.6 Road Density (km of roads per sq km)
---	--



Warehouse Access

0 1 **SCORE: 0.548** **RANK: 6/8 ASSESSED**

12.7 Average Distance to Warehouse (km)	8.1 Distance to CDEMA Sub- Regional Focal Point (km)
--	---



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: 4 / 8 ASSESSED
SCORE: 0.539



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: 4 / 8 ASSESSED
SCORE: 0.566

KEY FACTORS INFLUENCING RESILIENCE

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

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



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.



Gender Inequality

Marginalized populations are less likely to have their needs met under pre-disaster conditions, and therefore become even more susceptible to harm during times of disaster. Increase gender-based inclusion in all phases of DM, ensuring the implementation at subnational and local levels. Courses of action must recognize the role of women in society and support changes to policies and programs to promote gender-equal access.



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.

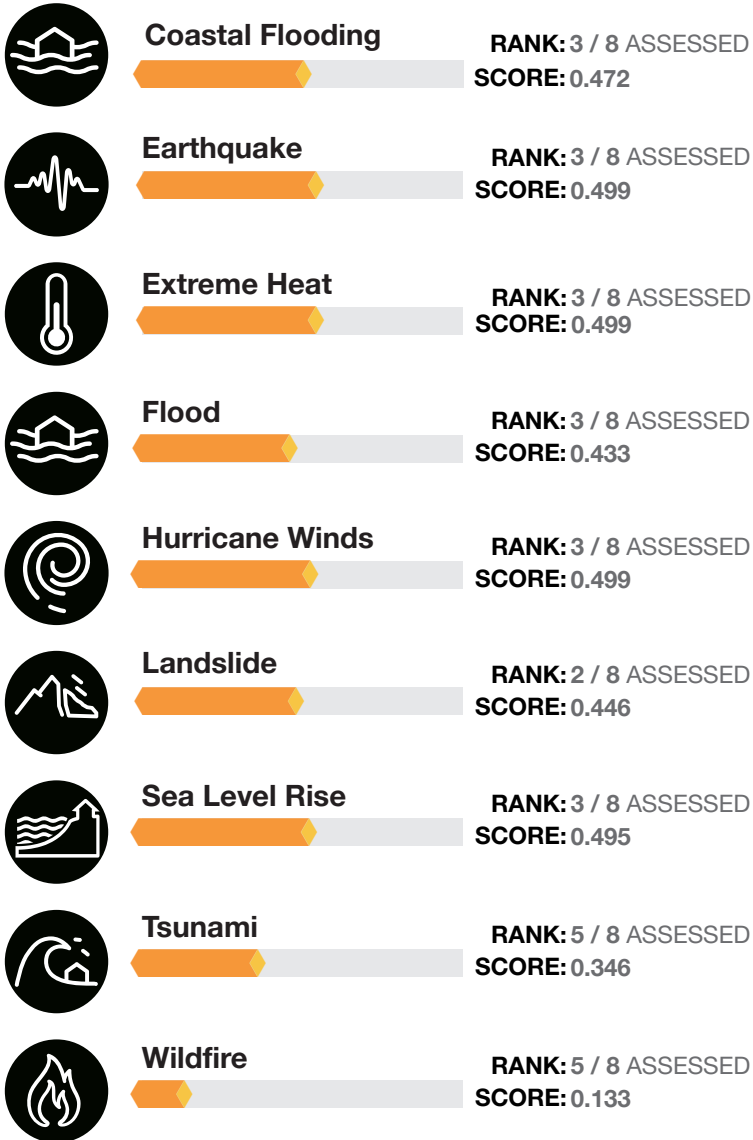


Transportation Capacity

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.



HAZARD-SPECIFIC RISK (HSR)





MULTI-HAZARD RISK (MHR)

3 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.463



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

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

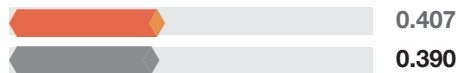
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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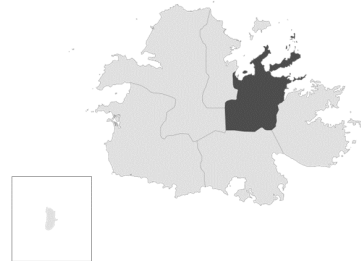
ANTIGUA & BARBUDA

SAINT PETER

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA SAINT PETER

Area: 33.02 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very Low
Score: 0.343 • Rank: 6/8



RESILIENCE (R)

- Low
Score: 0.563 • Rank: 5/8



MULTI-HAZARD EXPOSURE (MHE)

- Low
Score: 0.156 • Rank: 5/8



VULNERABILITY (V)

- Moderate
Score: 0.376 • Rank: 3/8



COPING CAPACITY (CC)

- Very Low
Score: 0.502 • Rank: 6/8



Population (2011 Census)
5,317



Prevalence of Chronic Illness
33.2%



Unemployment Rate
14.5%



Population with Unmet Housing Need
10.5%

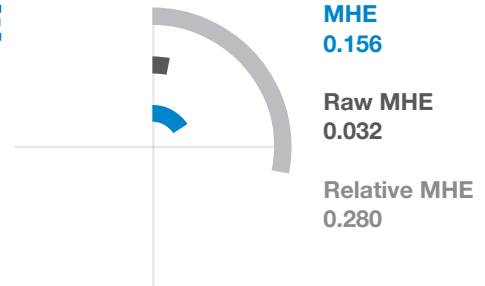


Households with Internet Access
32.3%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 5 / 8 ASSESSED
SCORE: 0.156



ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

2%

70

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **22%**



Hurricane Winds

100%

4,130

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

4,130

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

7%

291

Buildings Exposed: **6%**

Critical Infrastructure Exposed: **0%**



Extreme Heat

100%

4,130

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

9%

369

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **11%**



Flood

23%

949

Buildings Exposed: **27%**

Critical Infrastructure Exposed: **14%**



Tsunami

9%

369

Buildings Exposed: **10%**

Critical Infrastructure Exposed: **44%**

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: 5 / 8 ASSESSED
SCORE: 0.156

ESTIMATED EXPOSURE TO EACH HAZARD *(CONTINUED)*:



Wildfire

16%

676

Buildings Exposed: **13%**

Critical Infrastructure Exposed: **11%**



VULNERABILITY (V)

RANK: 3 / 8 ASSESSED
SCORE: 0.376

Vulnerability in Saint Peter is primarily driven by Environmental Stress and Information Access Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.453** **RANK: 6/8 ASSESSED**

12.0% Highest Education Primary School	71.9% Households without Desktop Computer Access	32.3% Households with Internet Access	76.4% Households with Television Access	66.8% Households with Radio Access
--	--	---	---	--



Economic Constraints

0  1 **SCORE: 0.425** **RANK: 4/8 ASSESSED**

0.46 Economic Dependency Ratio	65.5% Labor Force Participation Rate	4.5% Population Receiving Remittances	14.5% Unemployment Rate
--	--	---	-----------------------------------



Environmental Stress

0  1 **SCORE: 0.669** **RANK: 3/8 ASSESSED**

43.2% Coastline Exposure to Local or Global Threats	15.0% Tree Cover Loss
---	---------------------------------



Gender Inequality

0  1 **SCORE: 0.286** **RANK: 4/8 ASSESSED**

0.05 Female to Male Labor Ratio	0.22 Female to Male Secondary Education Attainment
---	--



VULNERABILITY (V)

RANK: 3 / 8 ASSESSED
SCORE: 0.376



Housing and Transportation Vulnerability

0  1 SCORE: 0.416 RANK: 4/8 ASSESSED

65.3%

Housing Built
Prior to 2000

5.4%

Household
Overcrowding

37.1%

Households
without Private
Vehicle

10.5%

Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.168 RANK: 5/8 ASSESSED

2.64

Prevalence of
Disability (per
100 persons)

33.2%

Prevalence of
Chronic Illness
(per 100
persons)

7.0%

Population
Age 65 and
Over

24.5%

Population
Under Age 15



Population Pressures

0  1 SCORE: 0.213 RANK: 6/8 ASSESSED

0.8%

Average Annual
Population
Change

161.0

Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 6 / 8 ASSESSED
SCORE: 0.519

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



Environmental Capacity

0  1 **SCORE: 0.543** **RANK: 1/8 ASSESSED**

10.7% Croplands	-1.77 Net Carbon Flux	11.0% Protected Terrestrial Area	100% Protected Coastlines
---------------------------	---------------------------------	--	-------------------------------------



Governance Capacity

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

97.2% Household Waste Disposal	4.2% Prevalence of Crime
--	------------------------------------



Infrastructure Capacity

0  1 **SCORE: 0.369** **RANK: 6/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 0.498** **RANK: 5/8 ASSESSED**

37.0% Households with Fixed Phones	87.4% Households with Mobile Phones
--	---



Emergency Services Capacity

0  1 **SCORE: 0.583** **RANK: 5/8 ASSESSED**

4.3 Average Distance to Fire Station (km)	3.4 Average Distance to Hospital or Clinic (km)	1.7 Average Distance to Police Station (km)	1.3 Average Distance to Shelter (km)
---	---	---	--



Energy Capacity

0  1 **SCORE: 0.393** **RANK: 5/8 ASSESSED**

91.2% Household Access to Public Electricity	97.2% Households Using Gas for Cooking	8.1% Households with Generator
--	--	--



Health Care Capacity

0  1 **SCORE: 0.000** **RANK: 7/8 ASSESSED**

48.7% Health Insurance Coverage	0.00 Hospitals and Clinics per 1,000 Persons
---	--



LOGISTICS CAPACITY (LC)

RANK: 3 / 8 ASSESSED
SCORE: 0.485

Saint Peter 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: 0.629** **RANK: 4/8 ASSESSED**

3.4 Average Distance to Seaport (km)	94.6 Distance to External Medium or Large Seaport (km)	0.11 Port Density (ports per km of coastline)
--	--	---



Air Support

0  1 **SCORE: 0.345** **RANK: 6/8 ASSESSED**

91.2 Distance to External C130 Airport (km)	6.2 Average Distance to Airport or Heliport (km)
---	---



Transportation Capacity

0  1 **SCORE: 0.235** **RANK: 6/8 ASSESSED**

0.24 Gas Stations per 1,000 Persons	3.5 Road Density (km of roads per sq km)
---	--



Warehouse Access

0  1 **SCORE: 0.730** **RANK: 4/8 ASSESSED**

9.1 Average Distance to Warehouse (km)	2.9 Distance to CDEMA Sub- Regional Focal Point (km)
---	---



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: 6 / 8 ASSESSED
SCORE: 0.502



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: 5 / 8 ASSESSED
SCORE: 0.563

KEY FACTORS INFLUENCING RESILIENCE

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

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



Environmental Stress

Environmental stressors such as the depletion or contamination of natural resources can exacerbate natural hazards and negatively impact the health, safety, and economic security of the population.



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.



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.

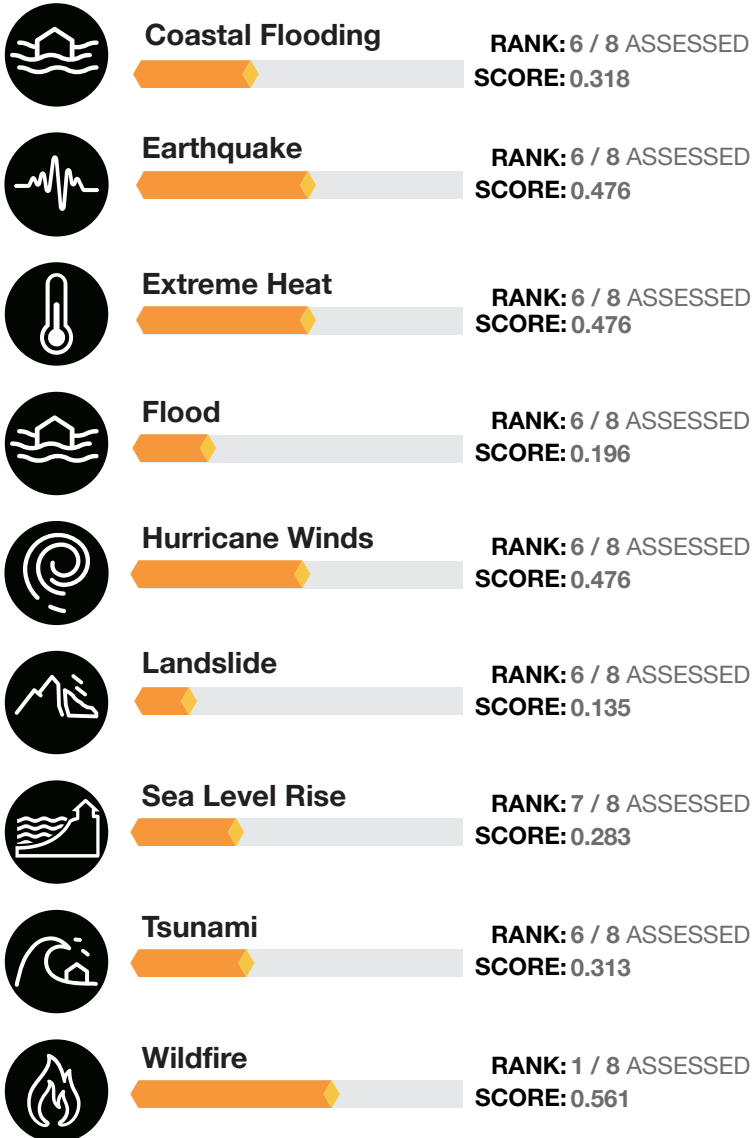


Air Support

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)

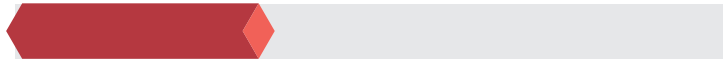




MULTI-HAZARD RISK (MHR)

6 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.343



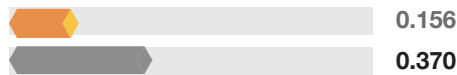
Saint Peter's score and ranking are due to Low Multi-Hazard Exposure combined with Moderate Vulnerability and Very Low Coping Capacity scores.

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

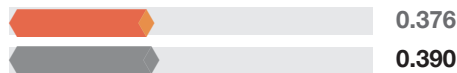
 PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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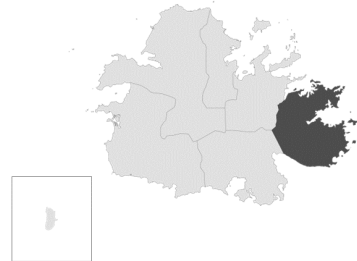
ANTIGUA & BARBUDA

SAINT PHILIP

NDPBA SUBNATIONAL PROFILE

ANTIGUA & BARBUDA SAINT PHILIP

Area: 44.03 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Low
Score: 0.355 • Rank: 5/8



RESILIENCE (R)

- Very Low
Score: 0.481 • Rank: 7/8



MULTI-HAZARD EXPOSURE (MHE)

- Very Low
Score: 0.026 • Rank: 7/8



VULNERABILITY (V)

- Low
Score: 0.363 • Rank: 4/8



COPING CAPACITY (CC)

- Very Low
Score: 0.324 • Rank: 7/8



Population (2011 Census)
3,322



Prevalence of Chronic Illness
49.6%



Unemployment Rate
7.5%



Population with Unmet Housing Need
8.8%

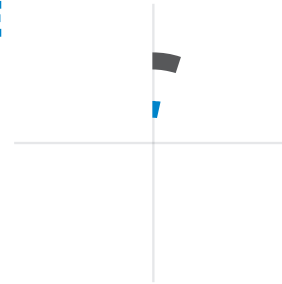


Households with Internet Access
36.0%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 7 / 8 F
SCORE: 0.026



MHE
0.026

Raw MHE
0.052

Relative MHE
0.000

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

4%

👤 126

Buildings Exposed: **6%**

Critical Infrastructure Exposed: **6%**



Hurricane Winds

100%

👤 3,170

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 3,170

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

4%

👤 136

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **5%**



Extreme Heat

100%

👤 3,170

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

8%

👤 249

Buildings Exposed: **5%**

Critical Infrastructure Exposed: **5%**



Flood

1%

👤 36

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **15%**



Tsunami

8%

👤 249

Buildings Exposed: **10%**

Critical Infrastructure Exposed: **6%**

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: 7 / 8 ASSESSED
SCORE: 0.026

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Wildfire

10%

315

Buildings Exposed: **7%**

Critical Infrastructure Exposed: **13%**



VULNERABILITY (V)

RANK: 4 / 8 ASSESSED
SCORE: 0.363

Vulnerability in Saint Philip is primarily driven by Information Access Vulnerability and Household Composition and Vulnerable Health. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.741** **RANK: 1/8 ASSESSED**

14.9%

Highest Education Primary School

74.0%

Households without Desktop Computer Access

36.0%

Households with Internet Access

66.3%

Households with Television Access

58.2%

Households with Radio Access



Economic Constraints

0  1 **SCORE: 0.101** **RANK: 7/8 ASSESSED**

0.49

Economic Dependency Ratio

76.5%

Labor Force Participation Rate

2.5%

Population Receiving Remittances

7.5%

Unemployment Rate



Environmental Stress

0  1 **SCORE: 0.299** **RANK: 4/8 ASSESSED**

42.6%

Coastline Exposure to Local or Global Threats

3.8%

Tree Cover Loss



Gender Inequality

0  1 **SCORE: 0.512** **RANK: 3/8 ASSESSED**

0.16

Female to Male Labor Ratio

0.15

Female to Male Secondary Education Attainment



VULNERABILITY (V)

RANK: 4 / 8 ASSESSED
SCORE: 0.363



Housing and Transportation Vulnerability

0  1 SCORE: 0.258 RANK: 6/8 ASSESSED

70.7%

Housing Built
Prior to 2000

2.7%

Household
Overcrowding

30.8%

Households
without Private
Vehicle

8.8%

Population
with Unmet
Housing Need



Household Composition and Vulnerable Health

0  1 SCORE: 0.581 RANK: 1/8 ASSESSED

3.08

Prevalence of
Disability (per
100 persons)

49.6%

Prevalence of
Chronic Illness
(per 100
persons)

10.5%

Population
Age 65 and
Over

22.6%

Population
Under Age 15



Population Pressures

0  1 SCORE: 0.048 RANK: 7/8 ASSESSED

0.3%

Average Annual
Population
Change

75.5

Population
Density
(persons per
sq km)



ISLAND CAPACITY (IC)

RANK: 7 / 8 ASSESSED
SCORE: 0.254

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



Environmental Capacity

0  1 **SCORE: 0.275** **RANK: 6/8 ASSESSED**

28.0% Croplands	-7.30 Net Carbon Flux	5.5% Protected Terrestrial Area	83.6% Protected Coastlines
---------------------------	---------------------------------	---	--------------------------------------



Governance Capacity

0  1 **SCORE: 0.280** **RANK: 7/8 ASSESSED**

88.7% Household Waste Disposal	4.1% Prevalence of Crime
--	------------------------------------



Infrastructure Capacity

0  1 **SCORE: 0.233** **RANK: 7/8 ASSESSED**



Communications Capacity

0  1 **SCORE: 0.232** **RANK: 7/8 ASSESSED**

41.7% Households with Fixed Phones	71.7% Households with Mobile Phones
--	---



Emergency Services Capacity

0  1 **SCORE: 0.288** **RANK: 7/8 ASSESSED**

10.2 Average Distance to Fire Station (km)	3.6 Average Distance to Hospital or Clinic (km)	1.7 Average Distance to Police Station (km)	2.0 Average Distance to Shelter (km)
--	---	---	--



Energy Capacity

0  1 **SCORE: 0.104** **RANK: 7/8 ASSESSED**

92.6% Household Access to Public Electricity	88.7% Households Using Gas for Cooking	6.1% Households with Generator
--	--	--



Health Care Capacity

0  1 **SCORE: 0.307** **RANK: 6/8 ASSESSED**

50.4% Health Insurance Coverage	0.32 Hospitals and Clinics per 1,000 Persons
---	--



LOGISTICS CAPACITY (LC)

RANK: 7 / 8 ASSESSED
SCORE: 0.394

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



Maritime Logistics

0  1 **SCORE: 0.321** **RANK: 7/8 ASSESSED**

5.6 Average Distance to Seaport (km)	89.9 Distance to External Medium or Large Seaport (km)	0.00 Port Density (ports per km of coastline)
--	--	---



Air Support

0  1 **SCORE: 0.122** **RANK: 8/8 ASSESSED**

86.4 Distance to External C130 Airport (km)	12.2 Average Distance to Airport or Heliport (km)
---	--



Transportation Capacity

0  1 **SCORE: 0.706** **RANK: 1/8 ASSESSED**

0.63 Gas Stations per 1,000 Persons	3.5 Road Density (km of roads per sq km)
---	--



Warehouse Access

0  1 **SCORE: 0.428** **RANK: 7/8 ASSESSED**

15.9 Average Distance to Warehouse (km)	8.0 Distance to CDEMA Sub- Regional Focal Point (km)
--	---



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: 7 / 8 ASSESSED
SCORE: 0.324



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: 7 / 8 ASSESSED
SCORE: 0.481

KEY FACTORS INFLUENCING RESILIENCE

Saint Philip's score and ranking are due to Low Vulnerability combined with Very 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.



Household Composition and Vulnerable Health

Households with dependent populations, such as the very young, elderly, chronically ill, and/or the disabled may have more difficulty with mobilizing and evacuating in a timely fashion and therefore become even more susceptible to harm during times of disaster. Further, the deaf or hard of hearing may not hear audible hazard alerts. Once evacuated, these populations will require additional services and care considerations in the response aftermath and during recovery. Plans and strategies must consider the special accommodations for these populations during response and recovery, including evacuation and sheltering.



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.

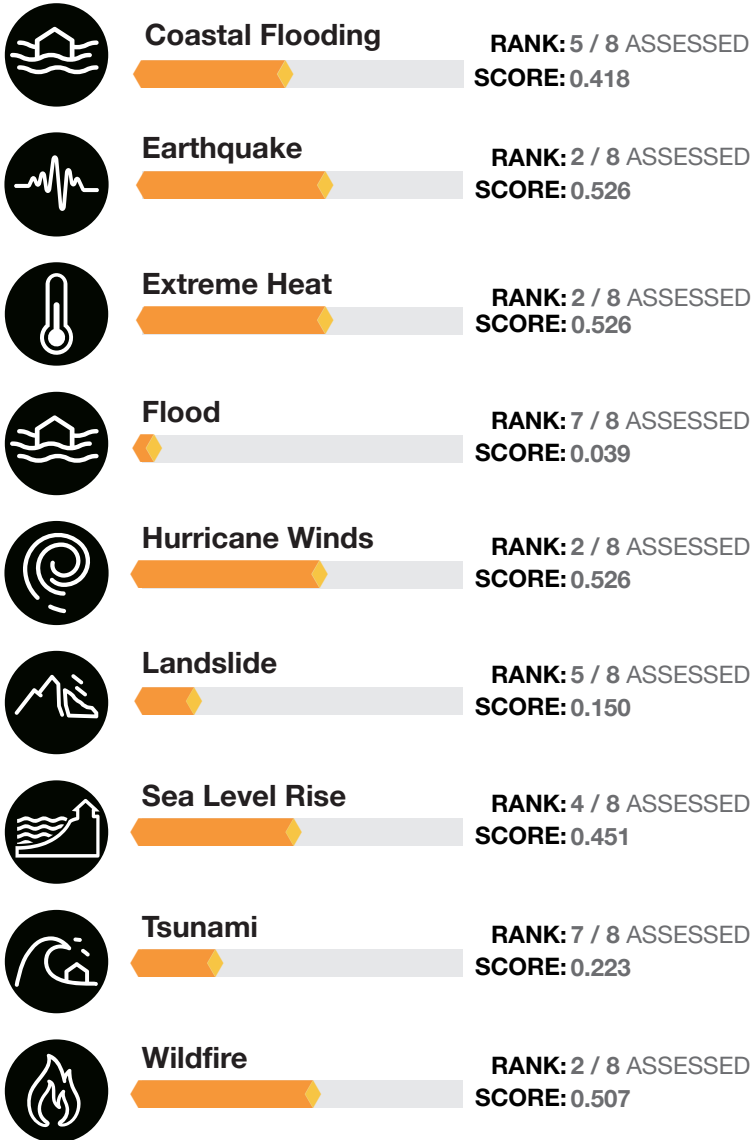


Maritime Logistics

Diverse maritime transport options, within and outside the country, offer crucial support for humanitarian efforts and the transit and delivery of disaster relief supplies. Protecting and maintaining port infrastructure and equipment can help safeguard these key assets and sustain functional operations during a disaster.



HAZARD-SPECIFIC RISK (HSR)

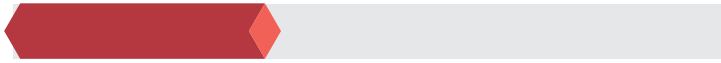




MULTI-HAZARD RISK (MHR)

5 / 8

RANK AMONG PARISHES/DEPENDENCIES
Score: 0.355



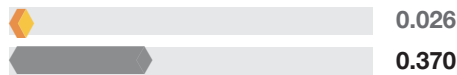
Saint Philip's score and ranking are due to Very Low Multi-Hazard Exposure combined with Low Vulnerability and Very Low Coping Capacity scores.

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

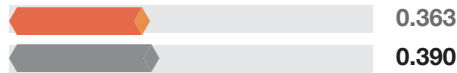
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



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