



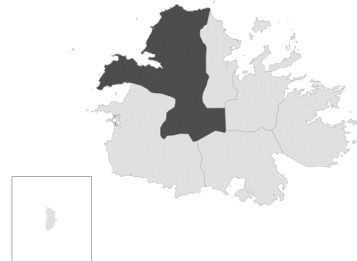
ANTIGUA & BARBUDA

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%



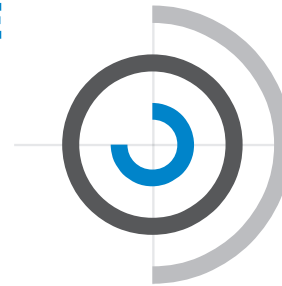
Households with Internet Access

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
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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
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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
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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
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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
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Governance Capacity

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

95.9% Household Waste Disposal	5.8% Prevalence of Crime
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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
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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)
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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
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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
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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)
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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)
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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)
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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)
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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: 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.

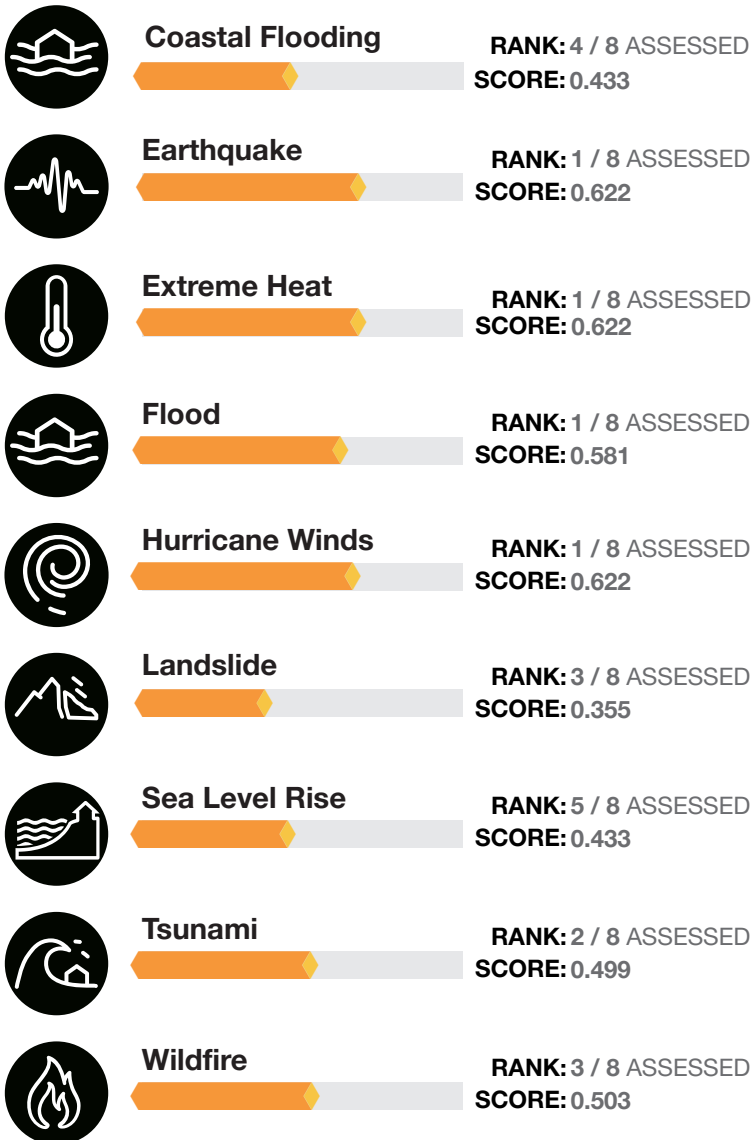


Air Support

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:

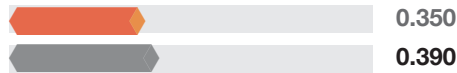
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

**1305 N. Holocono Street | P: (808) 891-0525
Suite 2, Kihei, HI 96753 | F: (808) 891-0526**



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www.pdc.org



ndpba.eci@pdc.org