



**BARBADOS**

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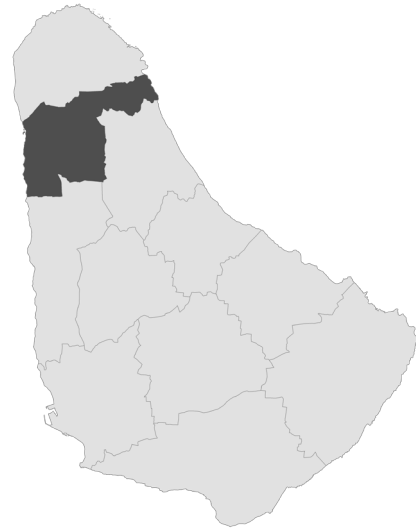
# **SAINT PETER**

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**NDPBA SUBNATIONAL PROFILE**

# BARBADOS SAINT PETER

Area: 34 km<sup>2</sup>



## RISK AND VULNERABILITY COMPONENT SCORE



### MULTI-HAZARD RISK (MHR)

- Low

Score: 0.433 • Rank: 7/11



### RESILIENCE (R)

- High

Score: 0.602 • Rank: 4/11



### MULTI-HAZARD EXPOSURE (MHE)

- High

Score: 0.503 • Rank: 4/11



### VULNERABILITY (V)

- Low

Score: 0.388 • Rank: 7/11



### COPING CAPACITY (CC)

- High

Score: 0.592 • Rank: 3/11



Population (2010 Census)

**10,382**



Population Density  
(persons per sq km)

**305**



Poverty Rate

**15.6%**



Housing Built Prior to  
1991

**59.7%**



Households with  
Unimproved Sanitation

**9.3%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 4 / 11 PARISHES ASSESSED  
SCORE: 0.503



MHE  
0.503

Raw MHE  
0.181

Relative MHE  
0.824

## ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

**2%**

👤 210

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **26%**



Hurricane Winds

**100%**

👤 10,400

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

**100%**

👤 10,400

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

**13%**

👤 1,360

Buildings Exposed: **12%**

Critical Infrastructure Exposed: **10%**



Extreme Heat

**81%**

👤 8,420

Buildings Exposed: **81%**

Critical Infrastructure Exposed: **86%**



Sea Level Rise

**1%**

👤 129

Buildings Exposed: **2%**

Critical Infrastructure Exposed: **26%**



Flash Flood

**97%**

👤 10,100

Buildings Exposed: **97%**

Critical Infrastructure Exposed: **100%**



Tsunami

**2%**

👤 211

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **28%**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 4 / 11 PARISHES ASSESSED  
SCORE: 0.503

### ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcanic Ashfall

**100%**

**10,400**

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

**7%**

**723**

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **12%**



## VULNERABILITY (V)

**RANK: 7 / 11 PARISHES ASSESSED**  
**SCORE: 0.388**

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



### Information Access Vulnerability

0  1 **SCORE: 0.824** **RANK: 1/11 PARISHES ASSESSED**

<b>72.3%</b> Primary School Attendance Rate	<b>51.9%</b> Secondary School Attendance Rate	<b>77.8%</b> Household Access to Radio	<b>92.3%</b> Household Access to Television
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### Economic Constraints

0  1 **SCORE: 0.101** **RANK: 11/11 PARISHES ASSESSED**

<b>0.45</b> Economic Dependency Ratio	<b>15.6%</b> Poverty Rate	<b>30.0%</b> GINI Coefficient
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### Environmental Stress

0  1 **SCORE: 0.363** **RANK: 7/11 PARISHES ASSESSED**

<b>43.5%</b> Coastline Exposure to Local or Global Threats	<b>8.2%</b> Tree Cover Loss
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### Gender Inequality

0  1 **SCORE: 0.515** **RANK: 4/11 PARISHES ASSESSED**

<b>0.13</b> Female to Male Labor Ratio	<b>0.08</b> Female to Male Secondary School Attendance
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## VULNERABILITY (V)

RANK: 7 / 11 PARISHES ASSESSED  
SCORE: 0.388



### Housing and Transportation Vulnerability

0  1 SCORE: 0.424 RANK: 6/11 PARISHES ASSESSED

**59.7%**

Housing Built  
Prior to 1991

**16.9%**

Household  
Overcrowding

**41.6%**

Households  
without a  
Private Vehicle



### Household Composition and Vulnerable Health

0  1 SCORE: 0.393 RANK: 8/11 PARISHES ASSESSED

**4.5**

Prevalence of  
Disability (per  
100 persons)

**12.4%**

Population  
Age 65 and  
Over

**22.5%**

Population  
Under Age 18



### Population Pressures

0  1 SCORE: 0.090 RANK: 9/11 PARISHES ASSESSED

**0.3%**

Average Annual  
Population  
Change

**305**

Population  
Density  
(persons per  
sq km)



### Clean Water Access Vulnerability

0  1 SCORE: 0.396 RANK: 5/11 PARISHES ASSESSED

**92.1%**

Households  
with Piped  
Water

**9.3%**

Households  
with  
Unimproved  
Sanitation



## ISLAND CAPACITY (IC)

**RANK: 2 / 11 PARISHES ASSESSED**  
**SCORE: 0.581**

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



### Environmental Capacity

0  1 **SCORE: 0.371** **RANK: 2/11 PARISHES ASSESSED**

<b>23.6%</b> Croplands	<b>-1.2</b> Net Carbon Flux	<b>4.7%</b> Protected Area	<b>0%</b> Protected Coastlines
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### Infrastructure Capacity

0  1 **SCORE: 0.671** **RANK: 3/11 PARISHES ASSESSED**



### Communications Capacity

0  1 **SCORE: 0.624** **RANK: 5/11 PARISHES ASSESSED**

<b>77.1%</b> Households with Fixed Phones	<b>55.1%</b> Households with Computer	<b>46.6%</b> Households with Internet Access
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### Emergency Services and Health Care Capacity

0  1 **SCORE: 0.653** **RANK: 4/11 PARISHES ASSESSED**

<b>9.5</b> Average Distance to Fire Station (km)	<b>2.4</b> Average Distance to Hospital or Clinic (km)	<b>2.9</b> Average Distance to Police Station (km)	<b>1.2</b> Average Distance to Shelter (km)	<b>2.9</b> Hospitals and Clinics per 10,000 Persons
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### Energy Capacity

0  1 **SCORE: 0.735** **RANK: 3/11 PARISHES ASSESSED**

<b>98.1%</b> Households with Electric Lighting	<b>93.3%</b> Households Using Gas for Cooking
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## LOGISTICS CAPACITY (LC)

**RANK: 2 / 11 PARISHES ASSESSED**  
**SCORE: 0.603**

Saint Peter exhibits weaker Logistics Capacity in the areas of Warehouse Access and Transportation Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.



### Maritime Logistics

0  1 **SCORE: 0.716** **RANK: 2/11 PARISHES ASSESSED**

<b>3.1</b> Average Distance to Seaport (km)	<b>212.7</b> Distance to External Medium or Large Seaport (km)	<b>0.12</b> Port Density (ports per km of coastline)
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### Air Support

0  1 **SCORE: 0.956** **RANK: 1/11 PARISHES ASSESSED**

<b>150.5</b> Distance to External C130 Airport (km)	<b>3.2</b> Average Distance to Airport or Heliport (km)
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### Transportation Capacity

0  1 **SCORE: 0.486** **RANK: 3/11 PARISHES ASSESSED**

<b>0.29</b> Gas Stations per 1,000 Persons	<b>6.2</b> Road Density (km of roads per sq km)
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### Warehouse Access

0  1 **SCORE: 0.253** **RANK: 10/11 PARISHES ASSESSED**

<b>18.4</b> Average Distance to Warehouse (km)	<b>13.6</b> 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 Barbados was calculated by using a combination of Island Capacity and Logistics Capacity.

**RANK: 3 / 11** PARISHES ASSESSED  
**SCORE: 0.592**



## RESILIENCE (R)

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

**RANK: 4 / 11** PARISHES ASSESSED  
**SCORE: 0.602**

## KEY FACTORS INFLUENCING RESILIENCE

Saint Peter's score and ranking are due to Low Vulnerability combined with High 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.



### 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.



### Warehouse Access

Efficient storage, movement and delivery of resources are key to effective humanitarian assistance and disaster relief operations. Access to both local and regional supply chains can significantly improve the speed and quality of response operations, reducing the negative social and economic impacts of an emergency.

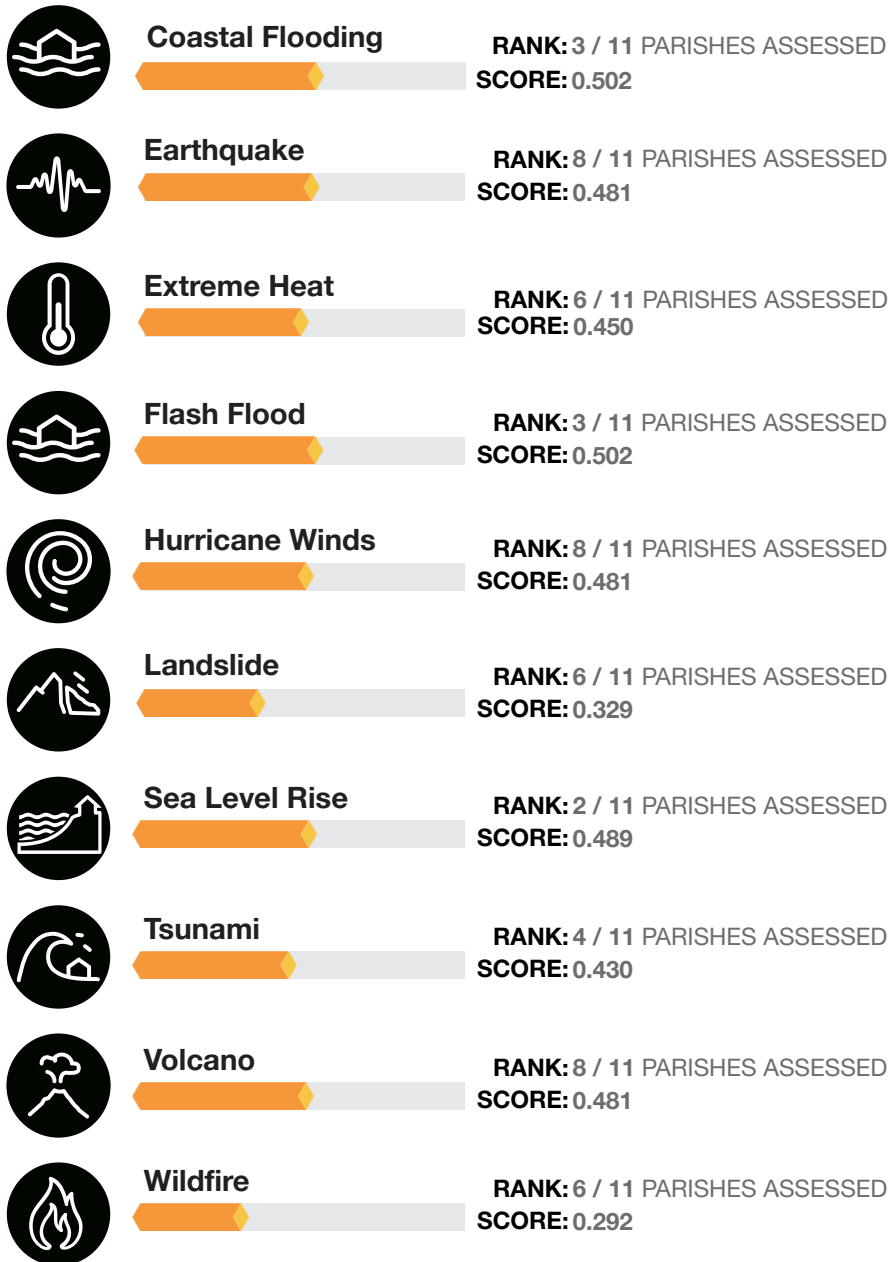


### Transportation Capacity

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 / 11

RANK AMONG PARISHES  
Score: 0.433



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

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

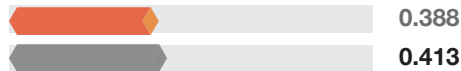
PARISH SCORE  
COUNTRY SCORE



#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



**Better solutions.  
Fewer disasters.**

# Safer world.

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