



**BARBADOS**

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# **SAINT GEORGE**

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**NDPBA SUBNATIONAL PROFILE**

# BARBADOS SAINT GEORGE

Area: 44 km<sup>2</sup>



## RISK AND VULNERABILITY COMPONENT SCORE



### MULTI-HAZARD RISK (MHR)

- Very Low  
Score: 0.271 • Rank: 11/11



### RESILIENCE (R)

- High  
Score: 0.612 • Rank: 3/11



### MULTI-HAZARD EXPOSURE (MHE)

- Very Low  
Score: 0.038 • Rank: 11/11



### VULNERABILITY (V)

- Very Low  
Score: 0.245 • Rank: 9/11



### COPING CAPACITY (CC)

- Moderate  
Score: 0.470 • Rank: 6/11



Population (2010 Census)

**18,203**



Population Density  
(persons per sq km)

**414**



Poverty Rate

**19.7%**



Housing Built Prior to  
1991

**59.2%**



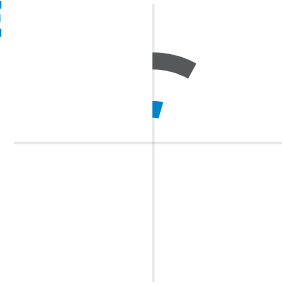
Households with  
Unimproved Sanitation

**8.7%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 11 / 11 PARISHES ASSESSED  
SCORE: 0.038



MHE  
0.038

Raw MHE  
0.077

Relative MHE  
0.000

## ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

**0%**

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Hurricane Winds

**100%**

21,000

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

**100%**

21,000

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

**12%**

2,470

Buildings Exposed: **12%**

Critical Infrastructure Exposed: **0%**



Extreme Heat

**<1%**

3

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **0%**



Sea Level Rise

**0%**

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Flash Flood

**0%**

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Tsunami

**0%**

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 11 / 11 PARISHES ASSESSED  
SCORE: 0.038

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



Volcanic Ashfall

**100%**

**21,000**

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

**5%**

**992**

Buildings Exposed: **6%**

Critical Infrastructure Exposed: **0%**



## VULNERABILITY (V)

**RANK: 9 / 11 PARISHES ASSESSED**  
**SCORE: 0.245**

Vulnerability in Saint George 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: 0.063** **RANK: 11/11 PARISHES ASSESSED**

<b>83.7%</b> Primary School Attendance Rate	<b>56.8%</b> Secondary School Attendance Rate	<b>86.0%</b> Household Access to Radio	<b>93.5%</b> Household Access to Television
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### Economic Constraints

0 1 **SCORE: 0.387** **RANK: 6/11 PARISHES ASSESSED**

<b>0.47</b> Economic Dependency Ratio	<b>19.7%</b> Poverty Rate	<b>31.1%</b> GINI Coefficient
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### Environmental Stress

0 1 **SCORE: 0.194** **RANK: 11/11 PARISHES ASSESSED**

<b>No Data</b> Coastline Exposure to Local or Global Threats	<b>6.0%</b> Tree Cover Loss
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### Gender Inequality

0 1 **SCORE: 0.188** **RANK: 9/11 PARISHES ASSESSED**

<b>0.10</b> Female to Male Labor Ratio	<b>0.04</b> Female to Male Secondary School Attendance
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## VULNERABILITY (V)

RANK: 9 / 11 PARISHES ASSESSED  
SCORE: 0.245



### Housing and Transportation Vulnerability

0  1 SCORE: 0.400 RANK: 8/11 PARISHES ASSESSED

**59.2%**

Housing Built  
Prior to 1991

**17.7%**

Household  
Overcrowding

**38.4%**

Households  
without a  
Private Vehicle



### Household Composition and Vulnerable Health

0  1 SCORE: 0.379 RANK: 9/11 PARISHES ASSESSED

**3.4**

Prevalence of  
Disability (per  
100 persons)

**11.2%**

Population  
Age 65 and  
Over

**24.7%**

Population  
Under Age 18



### Population Pressures

0  1 SCORE: 0.086 RANK: 10/11 PARISHES ASSESSED

**0.2%**

Average Annual  
Population  
Change

**414**

Population  
Density  
(persons per  
sq km)



### Clean Water Access Vulnerability

0  1 SCORE: 0.267 RANK: 8/11 PARISHES ASSESSED

**94.3%**

Households  
with Piped  
Water

**8.7%**

Households  
with  
Unimproved  
Sanitation



## ISLAND CAPACITY (IC)

**RANK: 6 / 11 PARISHES ASSESSED**  
**SCORE: 0.522**

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



### Environmental Capacity

0  1 **SCORE: 0.359** **RANK: 3/11 PARISHES ASSESSED**

<b>44.9%</b> Croplands	<b>-0.4</b> Net Carbon Flux	<b>0.0%</b> Protected Area	<b>No Data</b> Protected Coastlines
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### Infrastructure Capacity

0  1 **SCORE: 0.592** **RANK: 7/11 PARISHES ASSESSED**



### Communications Capacity

0  1 **SCORE: 0.598** **RANK: 6/11 PARISHES ASSESSED**

<b>75.2%</b> Households with Fixed Phones	<b>57.0%</b> Households with Computer	<b>47.0%</b> Households with Internet Access
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### Emergency Services and Health Care Capacity

0  1 **SCORE: 0.452** **RANK: 7/11 PARISHES ASSESSED**

<b>4.4</b> Average Distance to Fire Station (km)	<b>4.9</b> Average Distance to Hospital or Clinic (km)	<b>2.6</b> Average Distance to Police Station (km)	<b>1.4</b> Average Distance to Shelter (km)	<b>0.0</b> Hospitals and Clinics per 10,000 Persons
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### Energy Capacity

0  1 **SCORE: 0.725** **RANK: 6/11 PARISHES ASSESSED**

<b>98.5%</b> Households with Electric Lighting	<b>92.3%</b> Households Using Gas for Cooking
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## LOGISTICS CAPACITY (LC)

**RANK: 8 / 11 PARISHES ASSESSED**  
**SCORE: 0.419**

Saint George 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: 0.241** **RANK: 9/11 PARISHES ASSESSED**

<b>7.8</b> Average Distance to Seaport (km)	<b>226.3</b> Distance to External Medium or Large Seaport (km)	<b>No Data</b> Port Density (ports per km of coastline)
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### Air Support

0  1 **SCORE: 0.432** **RANK: 8/11 PARISHES ASSESSED**

<b>161.6</b> Distance to External C130 Airport (km)	<b>8.4</b> Average Distance to Airport or Heliport (km)
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### Transportation Capacity

0  1 **SCORE: 0.294** **RANK: 6/11 PARISHES ASSESSED**

<b>0.10</b> Gas Stations per 1,000 Persons	<b>6.7</b> Road Density (km of roads per sq km)
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### Warehouse Access

0  1 **SCORE: 0.707** **RANK: 5/11 PARISHES ASSESSED**

<b>9.0</b> Average Distance to Warehouse (km)	<b>5.4</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: 6 / 11** PARISHES ASSESSED  
**SCORE: 0.470**



## RESILIENCE (R)

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

**RANK: 3 / 11** PARISHES ASSESSED  
**SCORE: 0.612**

## KEY FACTORS INFLUENCING RESILIENCE

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

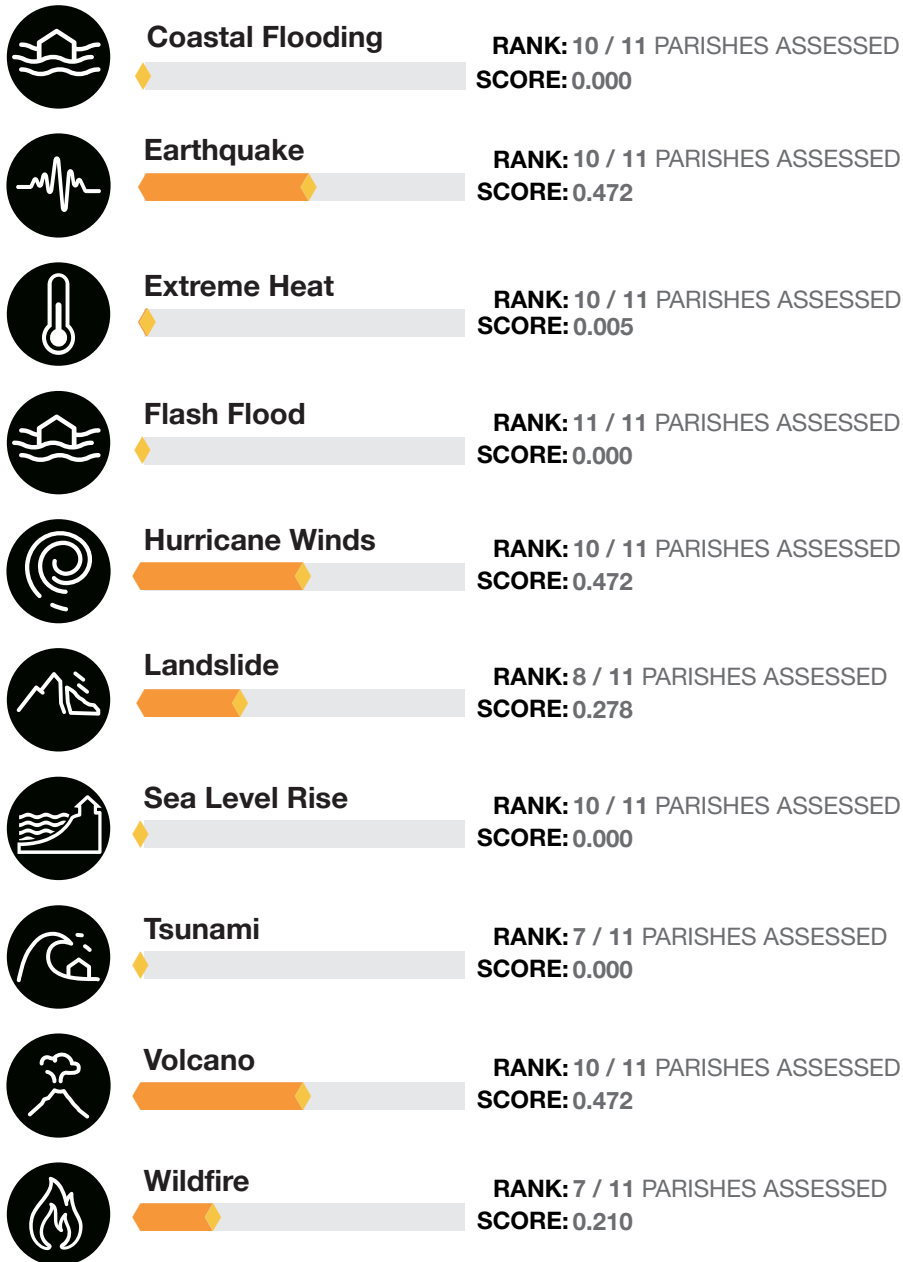


### Transportation Capacity

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)

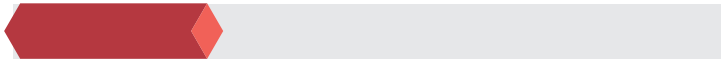




## MULTI-HAZARD RISK (MHR)

11 / 11

RANK AMONG PARISHES  
Score: 0.271



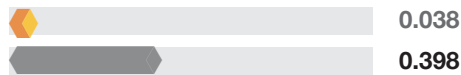
Saint George's score and ranking are due to Very Low Multi-Hazard Exposure combined with Very Low Vulnerability and Moderate Coping Capacity scores.

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

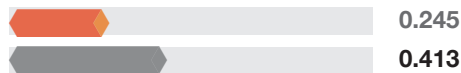
 PARISH SCORE  
 COUNTRY SCORE



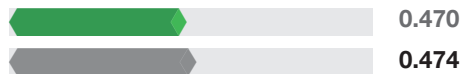
#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



**Better solutions.  
Fewer disasters.**

# Safer world.

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