



**ST. KITTS & NEVIS**

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# **SAINT PETER BASSETERRE**

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**NDPBA SUBNATIONAL PROFILE**

# ST. KITTS & NEVIS SAINT PETER BASSETERRE

Area: 19.74 km<sup>2</sup>



## RISK AND VULNERABILITY COMPONENT SCORE



### MULTI-HAZARD RISK (MHR)

- Moderate

Score: 0.442 • Rank: 7/14



### RESILIENCE (R)

- Moderate

Score: 0.521 • Rank: 7/14



### MULTI-HAZARD EXPOSURE (MHE)

- Moderate

Score: 0.368 • Rank: 8/14



### VULNERABILITY (V)

- Low

Score: 0.447 • Rank: 9/14



### COPING CAPACITY (CC)

- Low

Score: 0.489 • Rank: 10/14



Total Population (2022)

**5,667**



Population Under Age 15

**22.6%**



Housing Built Prior to 2000

**60.9%**



Households without Home Insurance

**35.7%**



Coastline Exposure to Local or Global Threats

**70.3%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 14 PARISH  
SCORE: 0.368



MHE  
0.368

Raw MHE  
0.257

Relative MHE  
0.478

## ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

**1%**

👤 64

Buildings Exposed: **2%**

Critical Infrastructure Exposed: **18%**



Hurricane Winds

**100%**

👤 5,370

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

**100%**

👤 5,370

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

**77%**

👤 4,130

Buildings Exposed: **84%**

Critical Infrastructure Exposed: **55%**



Extreme Heat

**100%**

👤 5,370

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

**<1%**

👤 40

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **15%**



Flash Flood

**5%**

👤 261

Buildings Exposed: **7%**

Critical Infrastructure Exposed: **<1%**



Tsunami

**29%**

👤 1,550

Buildings Exposed: **18%**

Critical Infrastructure Exposed: **47%**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 14 PARISH  
SCORE: 0.368

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



Volcano

**0%**

**0**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Wildfire

**38%**

**2,030**

Buildings Exposed: **47%**

Critical Infrastructure Exposed: **61%**



## VULNERABILITY (V)

**RANK: 9 / 14 PARISH ASSESSED**  
**SCORE: 0.447**

Vulnerability in Saint Peter Basseterre is primarily driven by Economic Dependence and Household Infrastructure Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



### Economic Dependence

0  1 **SCORE: 0.459** **RANK: 9/14 PARISH ASSESSED**

<b>40.2</b> Economic Dependency Ratio	<b>6.1%</b> Population Age 65 and Over	<b>22.6%</b> Population Under Age 15	<b>18.7%</b> Youth Bulge (population ages 15-24)
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### Environmental Pressures

0  1 **SCORE: 0.634** **RANK: 2/14 PARISH ASSESSED**

<b>0.04</b> Average Annual Population Change	<b>236.6</b> Population Density (persons per sq km)	<b>70.3%</b> Coastline Exposure to Local or Global Threats	<b>3.0%</b> Tree Cover Loss
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### Household Infrastructure Vulnerability

0  1 **SCORE: 0.394** **RANK: 10/14 PARISH ASSESSED**

<b>60.9%</b> Housing Built Prior to 2000	<b>88.5%</b> Households with Flush Toilets	<b>35.7%</b> Households without Home Insurance	<b>88.9%</b> Households with Piped Water
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# ISLAND CAPACITY (IC)

**RANK: 9 / 14 PARISH ASSESSED**  
**SCORE: 0.504**

Saint Peter Basseterre 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: 0.260** **RANK: 8/14 PARISH ASSESSED**

**-2.1**  
Average Annual Net Carbon Flux

**<1%**  
Croplands

**43.9%**  
Protected Terrestrial Area



## Governance Capacity

0  1 **SCORE: 0.813** **RANK: 4/14 PARISH ASSESSED**

**-**  
Voter Participation Rate

**98.3%**  
Household Waste Disposal



## Infrastructure Capacity

0  1 **SCORE: 0.390** **RANK: 12/14 PARISH ASSESSED**



## Emergency Services Capacity

0  1 **SCORE: 0.763** **RANK: 7/14 PARISH ASSESSED**

**2.1**  
Average Distance to Fire Station (km)

**2.2**  
Average Distance to Hospital or Clinic (km)

**2.3**  
Average Distance to Police Station (km)

**1.0**  
Average Distance to Shelter (km)



## Energy Capacity

0  1 **SCORE: 0.407** **RANK: 14/14 PARISH ASSESSED**

**97.9%**  
Households with Electric Lighting

**81.1%**  
Households Using Gas for Cooking



## Health Care Capacity

0  1 **SCORE: 0.000** **RANK: 9/14 PARISH ASSESSED**

**0.0**  
Hospitals and Clinics per 1,000 Persons



## LOGISTICS CAPACITY (LC)

**RANK: 7 / 14 PARISH ASSESSED**  
**SCORE: 0.474**

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



### Maritime Logistics

0  1 **SCORE: 0.387** **RANK: 7/14 PARISH ASSESSED**

**2.9**

Average Distance to Seaport (km)

**90.0**

Distance to External Medium or Large Seaport (km)

**0.00**

Port Density (ports per km of coastline)



### Air Support

0  1 **SCORE: 0.530** **RANK: 6/14 PARISH ASSESSED**

**86.7**

Distance to External C130 Airport (km)

**1.6**

Average Distance to Airport or Heliport (km)



### Transportation Capacity

0  1 **SCORE: 0.322** **RANK: 9/14 PARISH ASSESSED**

**0.0**

Gas Stations per 1,000 Persons

**6.4**

Road Density (km of roads per sq km)



### Warehouse Access

0  1 **SCORE: 0.658** **RANK: 7/14 PARISH ASSESSED**

**4.3**

Average Distance to Warehouse (km)

**90.0**

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 St. Kitts & Nevis was calculated by using a combination of Island Capacity and Logistics Capacity.

**RANK: 10 / 14** PARISH ASSESSED  
**SCORE: 0.489**



## RESILIENCE (R)

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

**RANK: 7 / 14** PARISH ASSESSED  
**SCORE: 0.521**



## KEY FACTORS INFLUENCING RESILIENCE

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

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



### Economic Dependence

Households with dependent populations, such as the very young and elderly, or young people with limited means and opportunities often lack available financial resources to invest in mitigation and preparedness measures that facilitate short- and long-term recovery. Furthermore, these populations can experience difficulty mobilizing and evacuating in a timely fashion and therefore become even more susceptible to harm during times of disaster. Plans and strategies must consider the special accommodations and care considerations for these populations during response and recovery, including evacuation and sheltering.



### Household Infrastructure 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. Furthermore, households without home insurance are more likely to face increased financial burdens and experience delays in disaster recovery processes. In addition, households experiencing access constraints to clean water and sanitation are challenged to maintain a standard of living that meets basic household needs, and face significant demands on daily routines that effectively limit their response and recovery capacity as well as the ability to maintain livelihoods. Increasing access to improved water and sanitation improves health outcomes and frees up resources to decrease further susceptibility to impacts.



### 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.

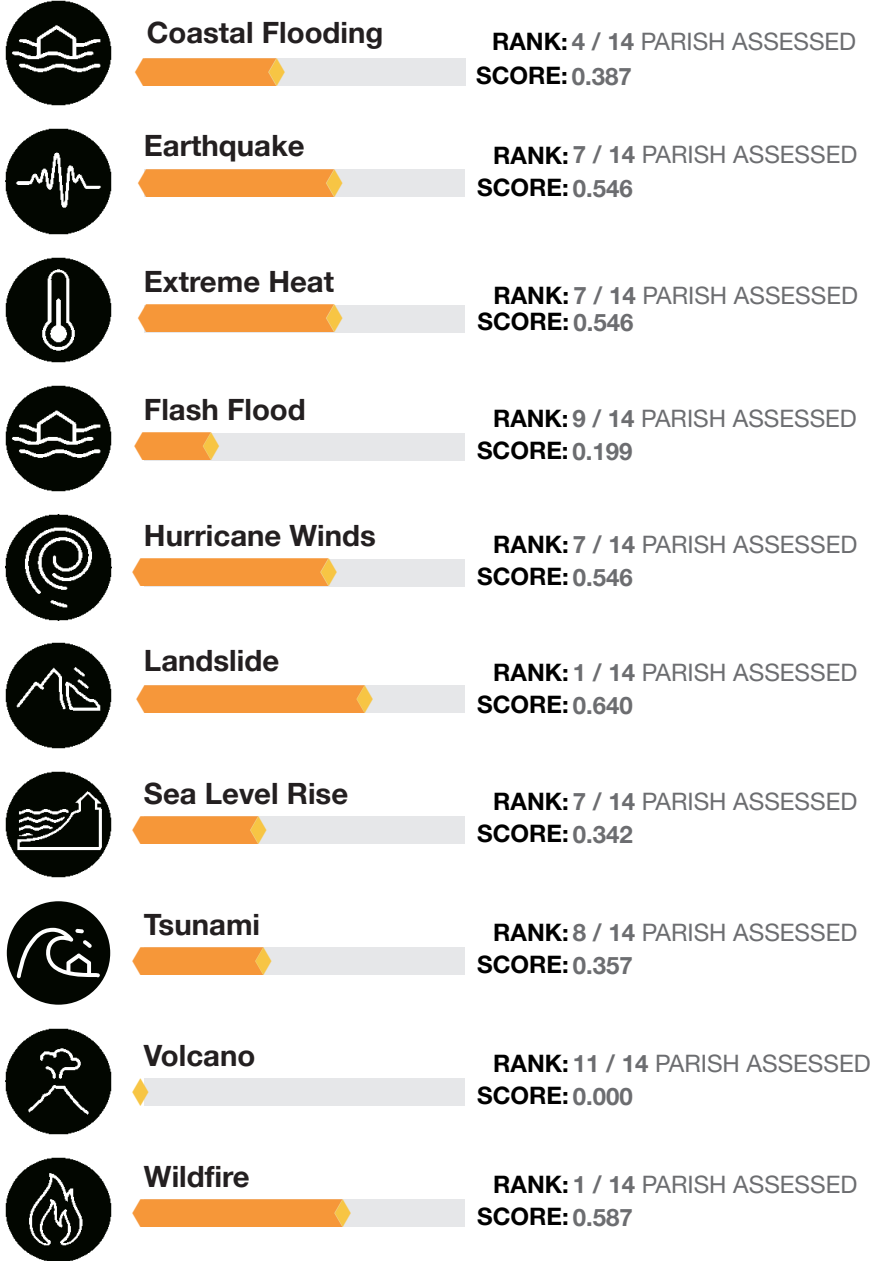


### Maritime Logistics

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)

**7 / 14**

RANK WITHIN PARISH  
Score: 0.442



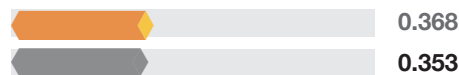
Saint Peter Basseterre's score and ranking are due to Moderate Multi-Hazard Exposure combined with Low Vulnerability and Low Coping Capacity scores.

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

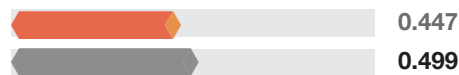
PARISH SCORE  
COUNTRY SCORE



#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



**Better solutions.  
Fewer disasters.**

# Safer world.

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