

# ST. KITTS & NEVIS

# NDPBA SUBNATIONAL PROFILE



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PARISH PROFILE

# ST. KITTS & NEVIS SAINT GEORGE BASSETERRE

Area: 28.60 km2

### **RISK AND VULNERABILITY** COMPONENT SCORE

**RESILIENCE (R)** 

- Very High

- Very High



# **MULTI-HAZARD RISK (MHR)**

- Low Score: 0.391 • Rank: 8/14

Score: 0.738 • Rank: 1/14

**MULTI-HAZARD EXPOSURE (MHE)** 



Total Population (2022) **13,652** 



Population Under Age 15 **21.5%** 



Housing Built Prior to 2000 67.6%



Households without Home Insurance **30.7%** 



Coastline Exposure to Local or Global Threats **61.5%** 



### VULNERABILITY (V) - Very Low

Score: 0.650 • Rank: 1/14

Score: 0.311 • Rank: 13/14



### COPING CAPACITY (CC) - Very High Score: 0.787 • Rank: 1/14

26 PDC Global

MHE 0.650



RANK: 1 / 14 PARISH SCORE: 0.650



Raw MHE 1.000

Relative MHE 0.299

# **ESTIMATED EXPOSURE TO EACH HAZARD:**



Coastal Flooding

**4** 558

Buildings Exposed: **4%** Critical Infrastructure Exposed: **15%** 



Earthquake

**å** 12,400

Buildings Exposed: **100%** Critical Infrastructure Exposed: **100%** 



Hurricane Winds **100% 12,400** 

Buildings Exposed: **100%** Critical Infrastructure Exposed: **100%** 

MÈ

Landslide **31%** 

**3,890** Buildings Exposed

Buildings Exposed: **23%** Critical Infrastructure Exposed: **13%** 



Extreme Heat

# **12,400**

Buildings Exposed: **100%** Critical Infrastructure Exposed: **100%** 



Flash Flood



Buildings Exposed: **<1%** Critical Infrastructure Exposed: **0%** 



Sea Level Rise

# **4% å** 473

Buildings Exposed: **3%** Critical Infrastructure Exposed: **14%** 





Buildings Exposed: **49%** Critical Infrastructure Exposed: **73%** 

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

### PARISH PROFILE



RANK: 1 / 14 PARISH SCORE: 0.650

# ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano 0% 0

Buildings Exposed: **0%** Critical Infrastructure Exposed: **0%** 



Buildings Exposed: **35%** Critical Infrastructure Exposed: **15%** 



### RANK: 13 / 14 PARISH ASSESSED SCORE: 0.311

RANK: 12/14 PARISH ASSESSED

RANK: 3/14 PARISH ASSESSED

Vulnerability in Saint George 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**

**42.1** Economic Dependency Ratio 8.1% Population Age 65 and Over

n Population Id Under Age 15

**16.4%** Youth Bulge (population ages 15-24)

SCORE: 0.377

1



# Environmental Pressures

-0.01 Average Annual Population Change 441.8 6 Population C Density E (persons per to sq km) G

61.5% 5 Coastline Tr Exposure Lo to Local or Global Threats

**5.5%** Tree Cover Loss



# Household Infrastructure Vulnerability

1 SCORE: 0.174 RANK: 14/14 PARISH ASSESSED

**67.6%** Housing Built Prior to 2000

0

94.2% Households with Flush Toilets **30.7%** Households H without Home W Insurance W

94.5% Households with Piped Water

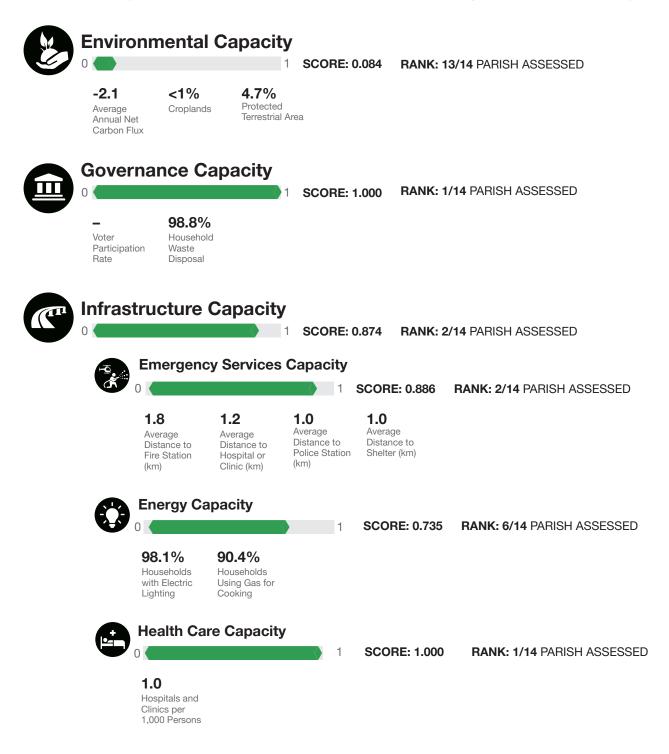
### PARISH PROFILE



# ISLAND CAPACITY (IC)

### RANK: 1 / 14 PARISH ASSESSED SCORE: 0.833

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



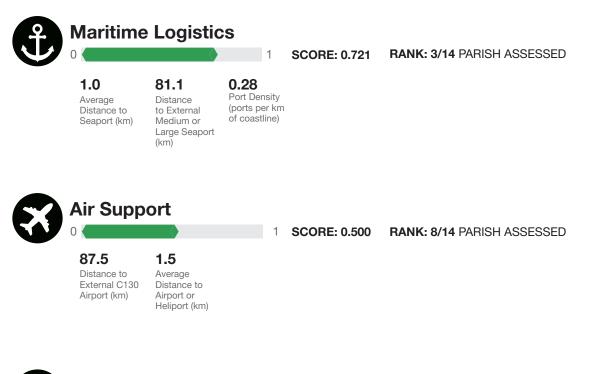
30



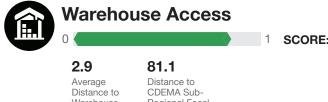
# **LOGISTICS CAPACITY (LC)**

RANK: 2 / 14 PARISH ASSESSED SCORE: 0.741

Saint George Basseterre 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.







SCORE: 0.844 RANK: 4/14 PARISH ASSESSED

Regional Focal Point (km)



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: 1 / 14 PARISH ASSESSED SCORE: 0.787



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

RANK: 1 / 14 PARISH ASSESSED SCORE: 0.738

# **KEY FACTORS INFLUENCING RESILIENCE**

Saint George Basseterre'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:



# **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.



# **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.

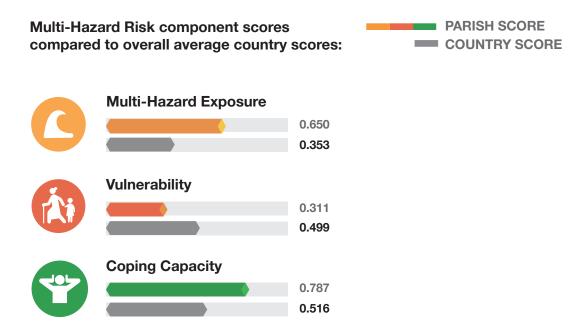
HAZARD-SPECIFIC RISK (HSR)		
	Coastal Flooding	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.477
-MM	Earthquake	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.512
	Extreme Heat	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.512
	Flash Flood	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.026
Q	Hurricane Winds	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.512
MÈ	Landslide	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.407
	Sea Level Rise	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.477
	Tsunami	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.476
23	Volcano	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.000
B	Wildfire	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.460



# MULTI-HAZARD RISK (MHR)

8 / 14 RANK WITHIN PARISH Score: 0.391

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





**Better solutions.** Fewer disasters.

# Scifer

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