



ST. KITTS & NEVIS

SAINT PAUL CHARLESTOWN

NDPBA SUBNATIONAL PROFILE

ST. KITTS & NEVIS SAINT PAUL CHARLESTOWN

Area: 3.60 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very Low
Score: 0.347 • Rank: 13/14



RESILIENCE (R)

- Very High
Score: 0.631 • Rank: 2/14



MULTI-HAZARD EXPOSURE (MHE)

- Low
Score: 0.302 • Rank: 11/14



VULNERABILITY (V)

- Moderate
Score: 0.491 • Rank: 8/14



COPING CAPACITY (CC)

- Very High
Score: 0.752 • Rank: 2/14



Total Population (2022)
1,888



Population Under Age 15
22.1%



Housing Built Prior to
2000
67.9%



Households without
Home Insurance
49.4%



Coastline Exposure to
Local or Global Threats
80.2%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 11 / 14 PARISH
SCORE: 0.302



MHE
0.302

Raw MHE
0.111

Relative MHE
0.492

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

2%

40

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **9%**



Hurricane Winds

100%

2,350

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

2,350

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Extreme Heat

100%

2,350

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

2%

39

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **9%**



Flash Flood

5%

116

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **9%**



Tsunami

50%

1,180

Buildings Exposed: **56%**

Critical Infrastructure Exposed: **66%**

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: 11 / 14 PARISH
SCORE: 0.302

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

100%

2,350

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 8 / 14 PARISH ASSESSED
SCORE: 0.491

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



Economic Dependence

0  1 **SCORE: 0.413** **RANK: 11/14 PARISH ASSESSED**

44.9 Economic Dependency Ratio	8.9% Population Age 65 and Over	22.1% Population Under Age 15	15.5% Youth Bulge (population ages 15-24)
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Environmental Pressures

0  1 **SCORE: 0.781** **RANK: 1/14 PARISH ASSESSED**

0.00 Average Annual Population Change	513.1 Population Density (persons per sq km)	80.2% Coastline Exposure to Local or Global Threats	5.9% Tree Cover Loss
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Household Infrastructure Vulnerability

0  1 **SCORE: 0.505** **RANK: 9/14 PARISH ASSESSED**

67.9% Housing Built Prior to 2000	91.2% Households with Flush Toilets	49.4% Households without Home Insurance	89.5% Households with Piped Water
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ISLAND CAPACITY (IC)

RANK: 3 / 14 PARISH ASSESSED
SCORE: 0.740

Saint Paul Charlestown 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.



Environmental Capacity

0 1 **SCORE: 0.031** **RANK: 14/14 PARISH ASSESSED**

-0.5
Average Annual Net Carbon Flux

0.0%
Croplands

11.8%
Protected Terrestrial Area



Governance Capacity

0 1 **SCORE: 0.698** **RANK: 8/14 PARISH ASSESSED**

59%
Voter Participation Rate

98.0%
Household Waste Disposal



Infrastructure Capacity

0 1 **SCORE: 0.879** **RANK: 1/14 PARISH ASSESSED**



Emergency Services Capacity

0 1 **SCORE: 0.979** **RANK: 1/14 PARISH ASSESSED**

0.8
Average Distance to Fire Station (km)

0.5
Average Distance to Hospital or Clinic (km)

0.8
Average Distance to Police Station (km)

0.6
Average Distance to Shelter (km)



Energy Capacity

0 1 **SCORE: 0.778** **RANK: 4/14 PARISH ASSESSED**

97.1%
Households with Electric Lighting

94.3%
Households Using Gas for Cooking



Health Care Capacity

0 1 **SCORE: 0.879** **RANK: 2/14 PARISH ASSESSED**

0.9
Hospitals and Clinics per 1,000 Persons



LOGISTICS CAPACITY (LC)

RANK: 1 / 14 PARISH ASSESSED
SCORE: 0.764

Saint Paul Charlestown exhibits weaker Logistics Capacity in the areas of Air Support and Transportation Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.



Maritime Logistics

0  1 **SCORE: 0.950** **RANK: 1/14 PARISH ASSESSED**

0.9 Average Distance to Seaport (km)	77.5 Distance to External Medium or Large Seaport (km)	0.64 Port Density (ports per km of coastline)
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Air Support

0  1 **SCORE: 0.416** **RANK: 13/14 PARISH ASSESSED**

84.2 Distance to External C130 Airport (km)	8.3 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0  1 **SCORE: 0.785** **RANK: 2/14 PARISH ASSESSED**

0.4 Gas Stations per 1,000 Persons	9.1 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.907** **RANK: 2/14 PARISH ASSESSED**

2.7 Average Distance to Warehouse (km)	77.5 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 St. Kitts & Nevis was calculated by using a combination of Island Capacity and Logistics Capacity.

RANK: 2 / 14 PARISH ASSESSED
SCORE: 0.752



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: 2 / 14 PARISH ASSESSED
SCORE: 0.631

KEY FACTORS INFLUENCING RESILIENCE

Saint Paul Charlestown's score and ranking are due to Moderate Vulnerability combined with Very High Coping Capacity scores.

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



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.



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.



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.

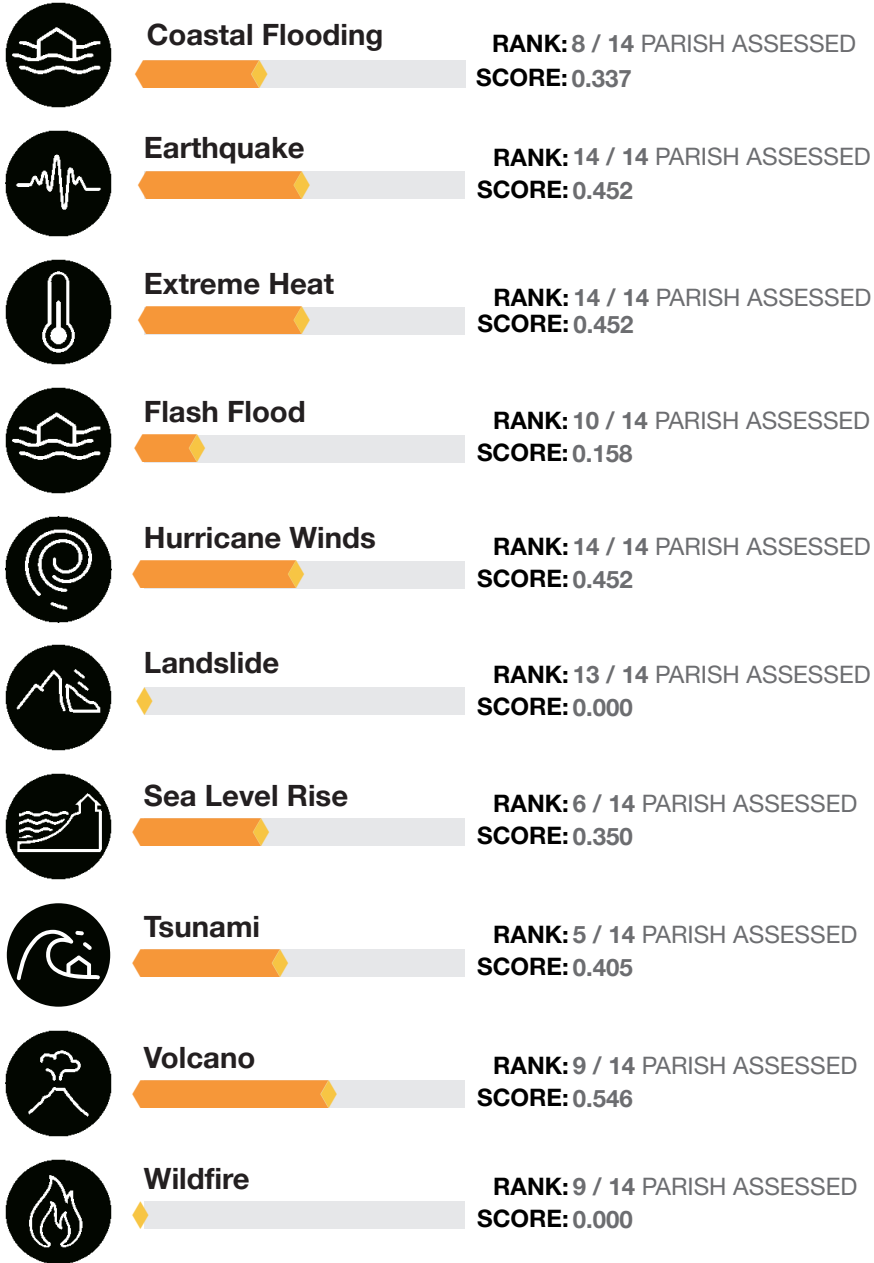


Transportation Capacity

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)

13 / 14

RANK WITHIN PARISH
Score: 0.347

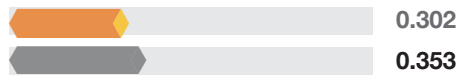


Saint Paul Charlestown's score and ranking are due to Low Multi-Hazard Exposure combined with Moderate Vulnerability and Very High Coping Capacity scores.

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



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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