



ST. KITTS & NEVIS

SAINT JAMES WINDWARD

NDPBA SUBNATIONAL PROFILE

ST. KITTS & NEVIS SAINT JAMES WINDWARD

Area: 31.50 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Low

Score: 0.383 • Rank: 9/14



RESILIENCE (R)

- High

Score: 0.616 • Rank: 5/14



MULTI-HAZARD EXPOSURE (MHE)

- Moderate

Score: 0.381 • Rank: 6/14



VULNERABILITY (V)

- Low

Score: 0.426 • Rank: 10/14



COPING CAPACITY (CC)

- High

Score: 0.658 • Rank: 3/14



Total Population (2022)

2,290



Population Under Age 15

17.0%



Housing Built Prior to 2000

60.8%



Households without Home Insurance

48.6%



Coastline Exposure to Local or Global Threats

73.7%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 6 / 14 PARISH
SCORE: 0.381



MHE
0.381

Raw MHE
0.202

Relative MHE
0.559

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

3%

👤 57

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **16%**



Hurricane Winds

100%

👤 2,260

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 2,260

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

40%

👤 897

Buildings Exposed: **30%**

Critical Infrastructure Exposed: **21%**



Extreme Heat

100%

👤 2,260

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

2%

👤 43

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **15%**



Flash Flood

<1%

👤 3

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Tsunami

35%

👤 781

Buildings Exposed: **41%**

Critical Infrastructure Exposed: **60%**

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: 6 / 14 PARISH
SCORE: 0.381

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

100%

2,260

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 10 / 14 PARISH ASSESSED
SCORE: 0.426

Vulnerability in Saint James Windward 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: 0.506** **RANK: 6/14 PARISH ASSESSED**

45.5 Economic Dependency Ratio	14.3% Population Age 65 and Over	17.0% Population Under Age 15	16.2% Youth Bulge (population ages 15-24)
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Environmental Pressures

0  1 **SCORE: 0.386** **RANK: 10/14 PARISH ASSESSED**

0.01 Average Annual Population Change	64.7 Population Density (persons per sq km)	73.7% Coastline Exposure to Local or Global Threats	1.3% Tree Cover Loss
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Household Infrastructure Vulnerability

0  1 **SCORE: 0.355** **RANK: 11/14 PARISH ASSESSED**

60.8% Housing Built Prior to 2000	92.9% Households with Flush Toilets	48.6% Households without Home Insurance	90.7% Households with Piped Water
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ISLAND CAPACITY (IC)

RANK: 4 / 14 PARISH ASSESSED
SCORE: 0.673

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



Environmental Capacity

0  1 **SCORE: 0.346** **RANK: 6/14 PARISH ASSESSED**

-6.0 Average Annual Net Carbon Flux	<1% Croplands	16.1% Protected Terrestrial Area
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Governance Capacity

0  1 **SCORE: 0.766** **RANK: 7/14 PARISH ASSESSED**

59% Voter Participation Rate	98.4% Household Waste Disposal
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Infrastructure Capacity

0  1 **SCORE: 0.681** **RANK: 5/14 PARISH ASSESSED**



Emergency Services Capacity

0  1 **SCORE: 0.786** **RANK: 6/14 PARISH ASSESSED**

2.1 Average Distance to Fire Station (km)	2.1 Average Distance to Hospital or Clinic (km)	2.0 Average Distance to Police Station (km)	1.0 Average Distance to Shelter (km)
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Energy Capacity

0  1 **SCORE: 0.799** **RANK: 3/14 PARISH ASSESSED**

97.1% Households with Electric Lighting	95.0% Households Using Gas for Cooking
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Health Care Capacity

0  1 **SCORE: 0.457** **RANK: 5/14 PARISH ASSESSED**

0.4
Hospitals and Clinics per 1,000 Persons



LOGISTICS CAPACITY (LC)

RANK: 4 / 14 PARISH ASSESSED
SCORE: 0.643

Saint James Windward 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: 0.663** **RANK: 4/14 PARISH ASSESSED**

2.3

Average Distance to Seaport (km)

72.8

Distance to External Medium or Large Seaport (km)

0.13

Port Density (ports per km of coastline)



Air Support

0  1 **SCORE: 0.793** **RANK: 1/14 PARISH ASSESSED**

79.5

Distance to External C130 Airport (km)

2.5

Average Distance to Airport or Heliport (km)



Transportation Capacity

0  1 **SCORE: 0.386** **RANK: 6/14 PARISH ASSESSED**

0.4

Gas Stations per 1,000 Persons

3.0

Road Density (km of roads per sq km)



Warehouse Access

0  1 **SCORE: 0.730** **RANK: 6/14 PARISH ASSESSED**

9.8

Average Distance to Warehouse (km)

72.8

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: 3 / 14 PARISH ASSESSED
SCORE: 0.658



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: 5 / 14 PARISH ASSESSED
SCORE: 0.616

KEY FACTORS INFLUENCING RESILIENCE

Saint James Windward'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:



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.

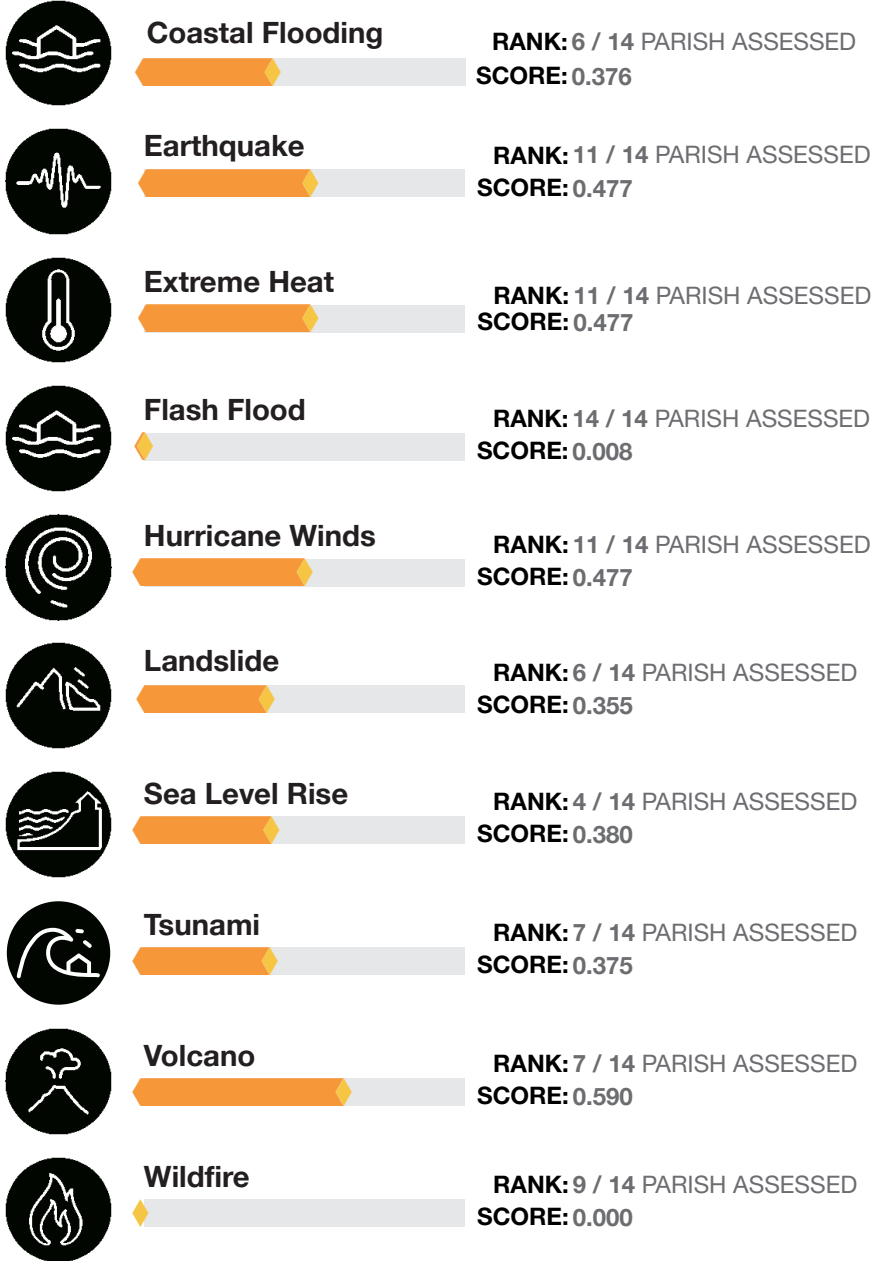


Maritime Logistics

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)

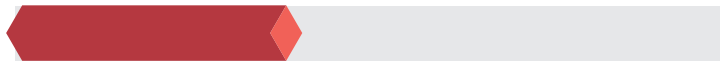




MULTI-HAZARD RISK (MHR)

9 / 14

RANK WITHIN PARISH
Score: 0.383



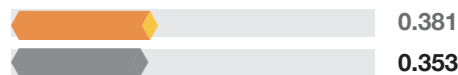
Saint James Windward's score and ranking are due to Moderate Multi-Hazard Exposure combined with Low Vulnerability and High Coping Capacity scores.

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

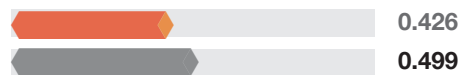
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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