

ST. KITTS & NEVIS CHRIST CHURCH NICHOLA TOWN

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS CHRIST CHURCH NICHOLA TOWN

Area: 17.97 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Low

- Very Low

- Moderate



MULTI-HAZARD RISK (MHR)

- Moderate Score: 0.444 • Rank: 6/14

Score: 0.367 • Rank: 11/14

Score: 0.064 • Rank: 13/14

VULNERABILITY (V)

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,064



Population Under Age 15 25.7%



Housing Built Prior to 2000 63.7%



Households without Home Insurance 61.1%



Coastline Exposure to Local or Global Threats **66.1%**



COPING CAPACITY (CC) - Very Low Score: 0.286 • Rank: 13/14

Score: 0.552 • Rank: 6/14

PDC Global

2



MHE 0.064

Raw MHE 0.013

Relative MHE 0.116

RANK: 13 / 14 PARISH SCORE: 0.064



ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

40

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



Earthquake

å 2,660

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



Hurricane Winds 100% 2,660 Buildings Exposed: 100%

Critical Infrastructure Exposed: **100%**

MÈ



å 24

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



Extreme Heat

2,660

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



Flash Flood

12% 308

Buildings Exposed: **6%** Critical Infrastructure Exposed: **3%**



Sea Level Rise



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



Tsunami



Buildings Exposed: **2%** Critical Infrastructure Exposed: **9%**

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



RANK: 13 / 14 PARISH SCORE: 0.064

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano 53% \$ 1,420

Buildings Exposed: **57%** Critical Infrastructure Exposed: **90%**



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



RANK: 6 / 14 PARISH ASSESSED SCORE: 0.552

BANK: 4/14 PARISH ASSESSED

RANK: 11/14 PARISH ASSESSED

Vulnerability in Christ Church Nichola Town is primarily driven by Household Infrastructure Vulnerability and Economic Dependence. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



n

Economic Dependence

47.5 Economic Dependency Ratio

6.5% Population Age 65 and Over

25.7% Population

16.2% Under Age 15

1

Youth Bulge (population ages 15-24)

SCORE: 0.538



Environmental Pressures 1

-0.01 Average Annual Population Change

107.0 Population Density (persons per sq km)

66.1% Coastline Exposure to l ocal or Global Threats

2.3% Tree Cover Loss

SCORE: 0.326



Household Infrastructure Vulnerability

1 SCORE: 0.616 **BANK: 7/14 PARISH ASSESSED**

63.7% Housing Built Prior to 2000

0

89.1% Households with Flush Toilets

61.1% Households without Home Insurance

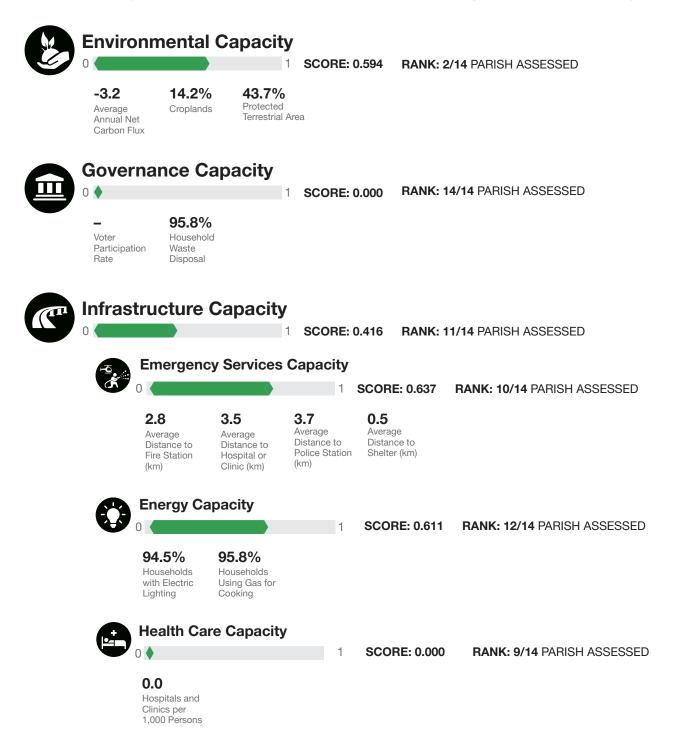
88.9% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 14 / 14 PARISH ASSESSED SCORE: 0.309

Christ Church Nichola Town exhibits weaker Island Capacity in the areas of Health Care Capacity and Governance Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.



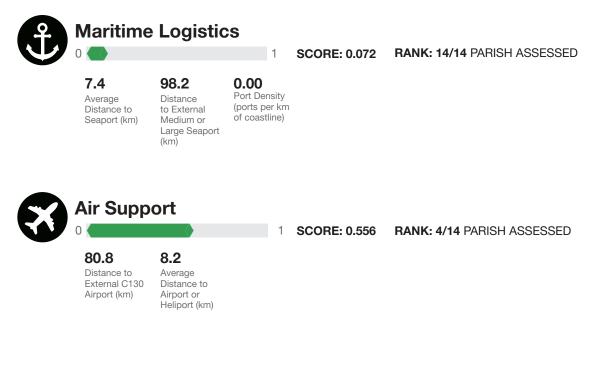
6



LOGISTICS CAPACITY (LC)

RANK: 13 / 14 PARISH ASSESSED SCORE: 0.262

Christ Church Nichola Town 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.







(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: 13 / 14 PARISH ASSESSED SCORE: 0.286



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

RANK: 11 / 14 PARISH ASSESSED SCORE: 0.367

KEY FACTORS INFLUENCING RESILIENCE

Christ Church Nichola Town's score and ranking are due to Moderate Vulnerability combined with Very Low 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.



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.

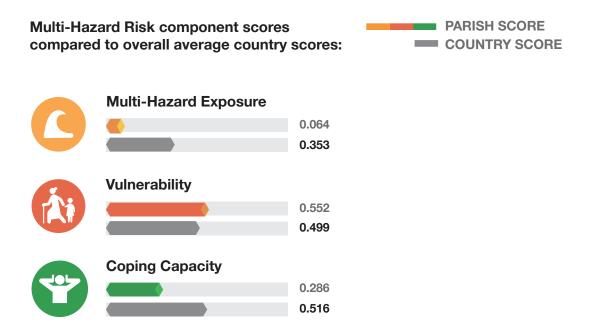
HAZ	ARD-SPECIFIC	RISK (HSR)
	Coastal Flooding	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.000
-m/n	Earthquake	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.575
	Extreme Heat	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.575
	Flash Flood	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.210
Q	Hurricane Winds	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.575
MÈ	Landslide	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.055
*	Sea Level Rise •	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.000
(Cá	Tsunami	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.127
Ŕ	Volcano	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.531
Ø	Wildfire	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.000



MULTI-HAZARD RISK (MHR)

6 / 14 RANK WITHIN PARISH Score: 0.444

Christ Church Nichola Town's score and ranking are due to Very Low Multi-Hazard Exposure combined with Moderate Vulnerability and Very Low Coping Capacity scores.





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT ANNE SANDY POINT

Area: 12.74 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Very High

- Very High

- Low



MULTI-HAZARD RISK (MHR)

- High Score: 0.577 • Rank: 4/14

Score: 0.405 • Rank: 10/14

Score: 0.542 • Rank: 2/14

VULNERABILITY (V)

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,969



Population Under Age 15 24.9%



Housing Built Prior to 2000 74.3%



Households without Home Insurance **48.5%**



Coastline Exposure to Local or Global Threats 44.3%

COPING CAPACITY (CC) - Moderate Score: 0.511 • Rank: 7/14

Score: 0.701 • Rank: 1/14

14 PDC Global



RANK: 2 / 14 PARISH SCORE: 0.542



Raw MHE 0.083

Relative MHE 1 000

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding 3%

₽ 75

Buildings Exposed: 1% Critical Infrastructure Exposed: 10%



Earthquake 100%

2,830

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% **2,830**

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%

Landslide 0%

2 0

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%



Extreme Heat 100%

2.830

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Flash Flood 100%

2,830

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Sea Level Rise



Buildings Exposed: 1% Critical Infrastructure Exposed: 10%





Buildings Exposed: 50% Critical Infrastructure Exposed: 67%

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: 2 / 14 PARISH SCORE: 0.542

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 2**,830

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



Buildings Exposed: **42%** Critical Infrastructure Exposed: **23%**



RANK: 1 / 14 PARISH ASSESSED SCORE: 0.701

RANK: 2/14 PARISH ASSESSED

RANK: 13/14 PARISH ASSESSED

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



n

Economic Dependence

46.0 Economic Dependency Ratio 6.6% Population Age 65 and Over **24.9%** Population Under Age 15

1

18.6% Youth Bulge (population ages 15-24)

SCORE: 0.651



Environmental Pressures

-0.02 Average Annual Population Change

206.1 4 Population C Density E (persons per to sq km) G

44.3% Coastline T Exposure L to Local or Global Threats

1

1.5% Tree Cover Loss

SCORE: 0.236



Household Infrastructure Vulnerability

1 SCORE: 0.853 RANK: 2/14 PARISH ASSESSED

74.3% Housing Built Prior to 2000

0

85.0% Households with Flush Toilets **48.5%** Households without Home Insurance

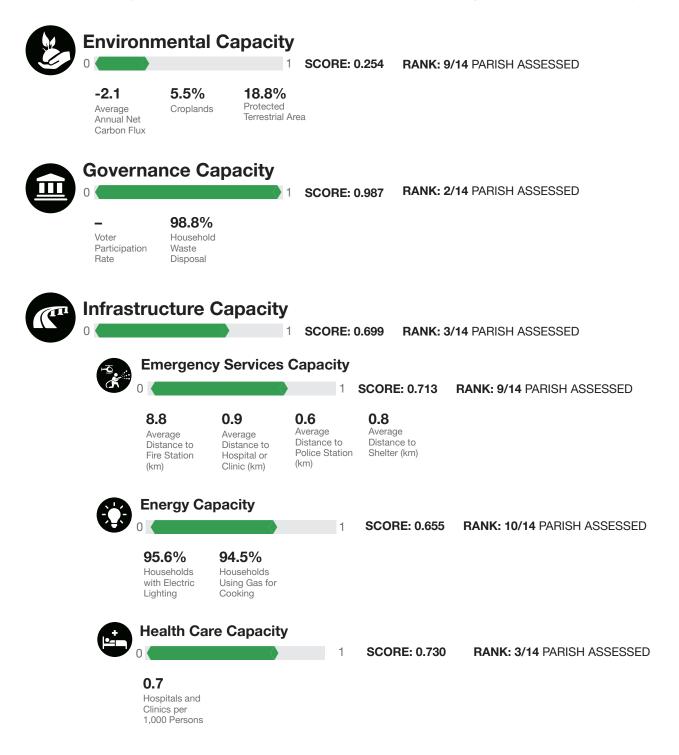
83.3% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 2 / 14 PARISH ASSESSED SCORE: 0.741

Saint Anne Sandy Point exhibits weaker Island Capacity in the areas of Energy Capacity and Emergency Services Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.



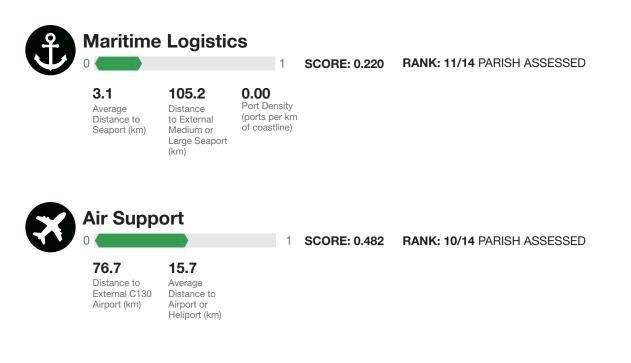


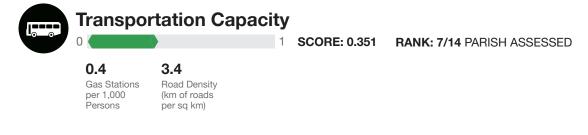
LOGISTICS CAPACITY (LC)

RANK: 12 / 14 PARISH ASSESSED SCORE: 0.281

RANK: 13/14 PARISH ASSESSED

Saint Anne Sandy Point exhibits weaker Logistics Capacity in the areas of Warehouse Access and Maritime Logistics. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.







(km)

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: 7 / 14 PARISH ASSESSED SCORE: 0.511



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

RANK: 10 / 14 PARISH ASSESSED SCORE: 0.405

KEY FACTORS INFLUENCING RESILIENCE

Saint Anne Sandy Point's score and ranking are due to Very High Vulnerability combined with Moderate 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.



Warehouse Access

Efficient storage, movement and delivery of resources are key to effective humanitarian assistance and disaster relief operations. Access to both local and regional supply chains can significantly improve the speed and quality of response operations, reducing the negative social and economic impacts of an emergency.



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.

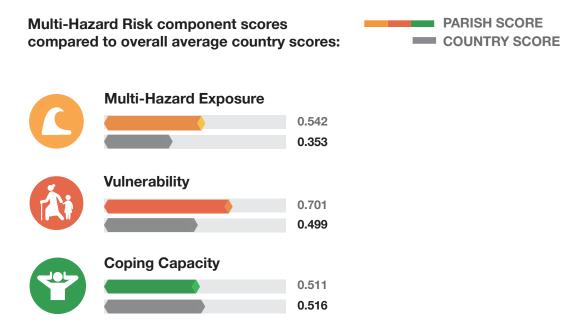
HAZ	HAZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.356			
Mp	Earthquake	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.557			
	Extreme Heat	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.557			
	Flash Flood	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.736			
Q	Hurricane Winds	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.557			
MÈ	Landslide	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.000			
۲Ì	Sea Level Rise	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.359			
	Tsunami	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.506			
	Volcano	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.634			
(A)	Wildfire	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.476			



MULTI-HAZARD RISK (MHR)

4 / 14 RANK WITHIN PARISH Score: 0.577

Saint Anne Sandy Point's score and ranking are due to Very High Multi-Hazard Exposure combined with Very High Vulnerability and Moderate Coping Capacity scores.





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT GEORGE BASSETERRE

Area: 28.60 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Very High



MULTI-HAZARD RISK (MHR)

- Low Score: 0.391 • Rank: 8/14

Score: 0.738 • Rank: 1/14



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%



MULTI-HAZARD EXPOSURE (MHE) - Very High Score: 0.650 • Rank: 1/14

(À)

VULNERABILITY (V) - Very Low

Score: 0.311 • Rank: 13/14



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



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% 4** 12,400

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

MÈ



3,890

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



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.

MULTI-HAZARD EXPOSURE (MHE)

RANK: 1 / 14 PARISH SCORE: 0.650

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

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 Co Density Ex (persons per to sq km) GI

61.5% 5.5% Coastline Tree Cover Exposure Loss to Local or Global Threats



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 without Home Insurance

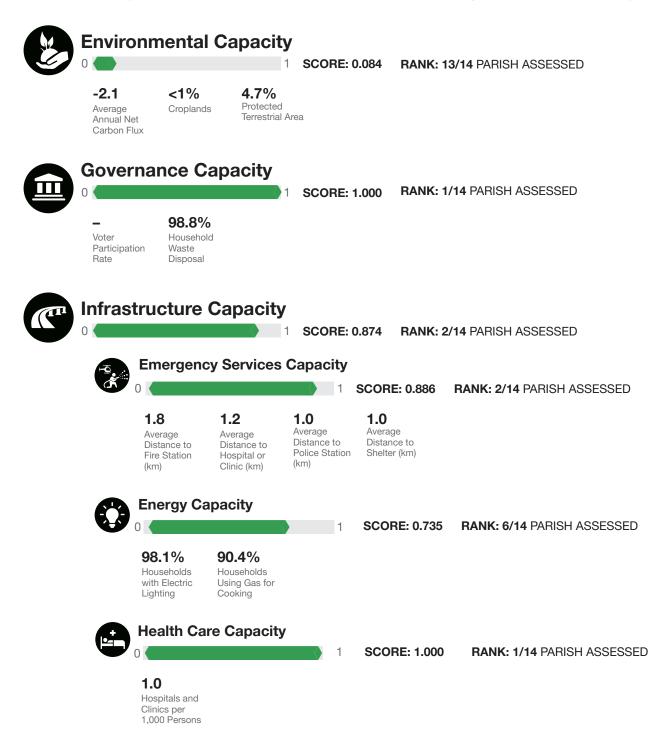
94.5% Households with Piped Water



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.



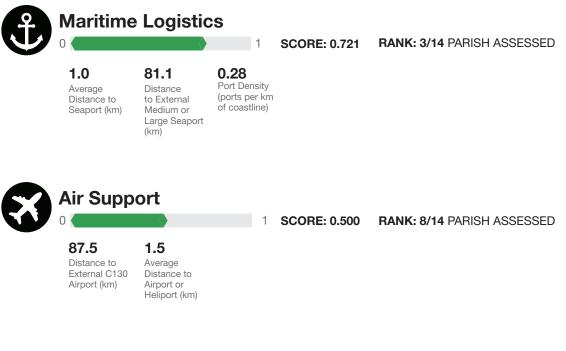
30

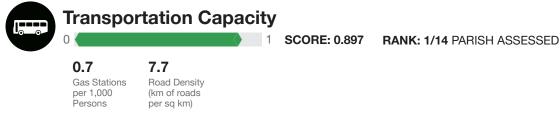


LOGISTICS CAPACITY (LC)

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.

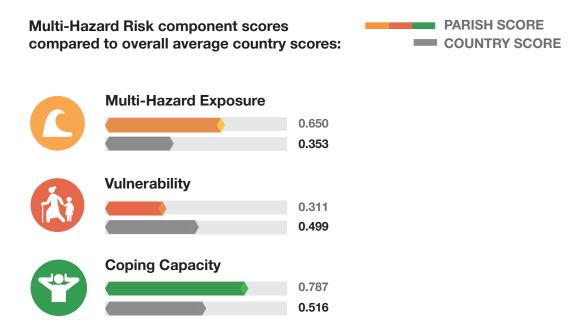
HAZ	HAZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.477			
M	Earthquake	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.512			
	Extreme Heat	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.512			
	Flash Flood	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.026			
0	Hurricane Winds	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.512			
	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			
24	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.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT GEORGE GINGERLAND

Area: 18.70 km2

ILITY

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Moderate

- Moderate



MULTI-HAZARD RISK (MHR)

- Moderate Score: 0.461 • Rank: 5/14

Score: 0.499 • Rank: 8/14

Score: 0.381 • Rank: 6/14

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,323



Population Under Age 15 **19.7%**



Housing Built Prior to 2000 71.4%



Households without Home Insurance 61.8%



Coastline Exposure to Local or Global Threats 88.0%



COPING CAPACITY (CC) - Moderate Score: 0.556 • Rank: 6/14

VULNERABILITY (V) - High Score: 0.559 • Rank: 5/14



RANK: 6 / 14 PARISH SCORE: 0.381



Raw MHE 0.091

Relative MHE 0.671

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding 0%

20

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%



Earthquake 100%

3,310

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% **3**,310 Buildings Exposed: 100%

Critical Infrastructure Exposed: 100%





1,490

Buildings Exposed: 48% Critical Infrastructure Exposed: 67%



Extreme Heat 100%

3.310

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Flash Flood 51%

1,680

Buildings Exposed: 62% Critical Infrastructure Exposed: 72%



Sea Level Rise

0% **2** 0

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%





Buildings Exposed: 5% Critical Infrastructure Exposed: <1%

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



RANK: 6 / 14 PARISH SCORE: 0.381

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 2** 3,310

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



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



RANK: 5 / 14 PARISH ASSESSED SCORE: 0.559

RANK: 10/14 PARISH ASSESSED

RANK: 7/14 PARISH ASSESSED

Vulnerability in Saint George Gingerland 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

42.5 Economic Dependency Ratio **10.1%** Population Age 65 and Over

19.7% Population d Under Age 15

17.2% Youth Bulge (population ages 15-24)

SCORE: 0.451

1



Environmental Pressures

0.00 Average Annual Population Change 133.5 8 Population C Density E (persons per to sq km) G

88.0% 3 Coastline Tr Exposure Lo to Local or Global Threats

3.1% Tree Cover Loss

SCORE: 0.455



Household Infrastructure Vulnerability

1 SCORE: 0.690 RANK: 4/14 PARISH ASSESSED

71.4% Housing Built Prior to 2000 90.6% Households with Flush Toilets 61.8% Households without Home Insurance

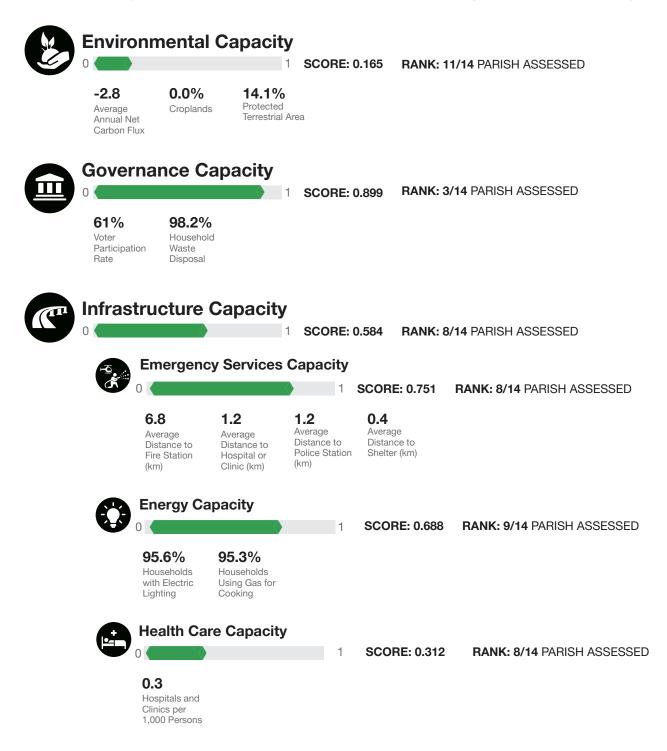
88.1% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 6 / 14 PARISH ASSESSED SCORE: 0.637

Saint George Gingerland 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.

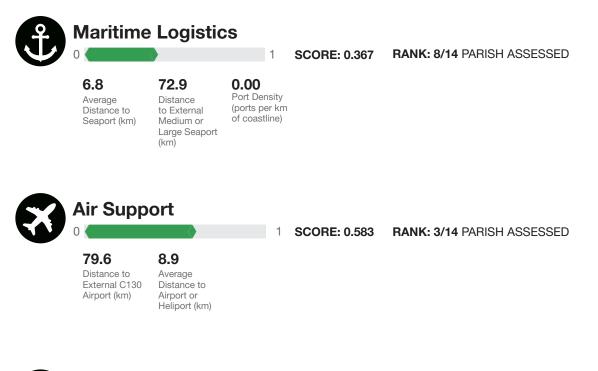




LOGISTICS CAPACITY (LC)

RANK: 6 / 14 PARISH ASSESSED SCORE: 0.476

Saint George Gingerland 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.







Point (km)

SCORE: 0.856 RANK: 3/14 PARISH ASSESSED



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: 6 / 14 PARISH ASSESSED SCORE: 0.556



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

RANK: 8 / 14 PARISH ASSESSED SCORE: 0.499

KEY FACTORS INFLUENCING RESILIENCE

Saint George Gingerland's score and ranking are due to High Vulnerability combined with Moderate 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.



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.

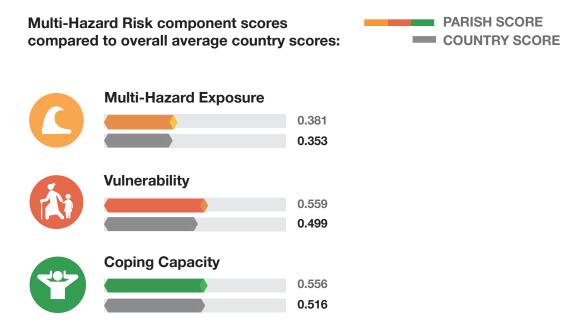
	ARD-SPECIFIC	CRISK (HSR)
	Coastal Flooding	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.000
-Mm	Earthquake	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.520
	Extreme Heat	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.520
\$	Flash Flood	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.528
Q	Hurricane Winds	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.520
MÈ	Landslide	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.482
2	Sea Level Rise •	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.000
Cá	Tsunami	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.085
Ŕ	Volcano	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.600
(d)	Wildfire	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.000



MULTI-HAZARD RISK (MHR)

5 / 14 RANK WITHIN PARISH Score: 0.461

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





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT JAMES WINDWARD

Area: 31.50 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Moderate

- High

- Low



MULTI-HAZARD RISK (MHR)

- Low Score: 0.383 • Rank: 9/14

Score: 0.616 • Rank: 5/14

Score: 0.381 • Rank: 6/14

VULNERABILITY (V)

MULTI-HAZARD EXPOSURE (MHE)



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%



COPING CAPACITY (CC) - High Score: 0.658 • Rank: 3/14

Score: 0.426 • Rank: 10/14

50 PDC Global

MHE 0.381



RANK: 6 / 14 PARISH SCORE: 0.381



Raw MHE 0.202

Relative MHE 0.559

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

4 57

Buildings Exposed: **3%** Critical Infrastructure Exposed: **16%**



Earthquake

å 2,260

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



Hurricane Winds 100% 2,260 Buildings Exposed: 100%

Critical Infrastructure Exposed: **100%**

MÈ



& 897

Buildings Exposed: **30%** Critical Infrastructure Exposed: **21%**



Extreme Heat

2,260

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



Flash Flood



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



Sea Level Rise



Buildings Exposed: **3%** Critical Infrastructure Exposed: **15%**





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%**



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



RANK: 10 / 14 PARISH ASSESSED **SCORE: 0.426**

BANK: 6/14 PARISH ASSESSED

RANK: 10/14 PARISH ASSESSED

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

45.5 Economic Dependency Ratio

14.3% Population Age 65 and Over

17.0% Population

16.2% Under Age 15

1

Youth Bulge (population ages 15-24)

SCORE: 0.386

SCORE: 0.506



Environmental Pressures 1

0.01 Average Annual Population Change

64.7 Population Density (persons per sq km)

73.7% Coastline Exposure to l ocal or Global Threats

1.3% Tree Cover Loss



Household Infrastructure Vulnerability

1 SCORE: 0.355 **BANK: 11/14 PARISH ASSESSED**

60.8% Housing Built Prior to 2000

0

92.9% Households with Flush Toilets

48.6% Households without Home Insurance

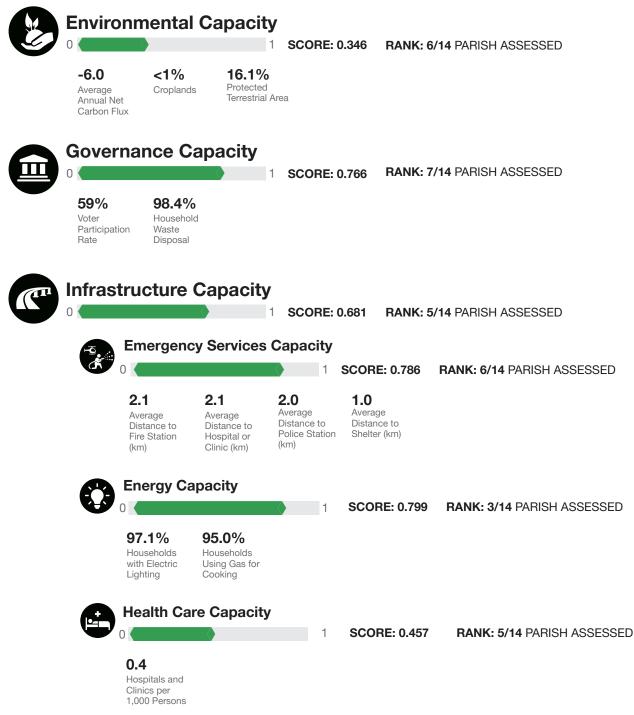
90.7% Households with Piped Water



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.

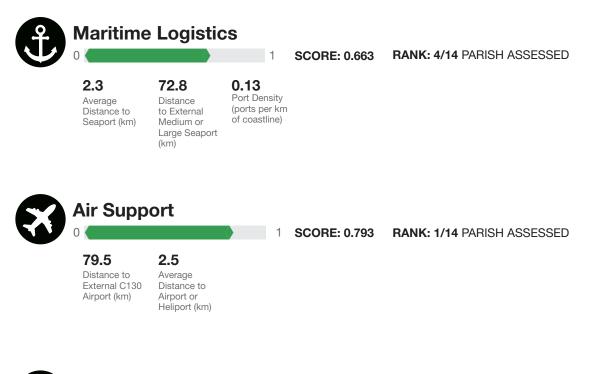


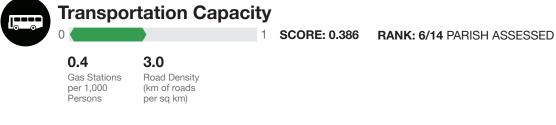


LOGISTICS CAPACITY (LC)

BANK: 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.







(km)

Regional Focal Point (km)

SCORE: 0.730 RANK: 6/14 PARISH ASSESSED



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 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.

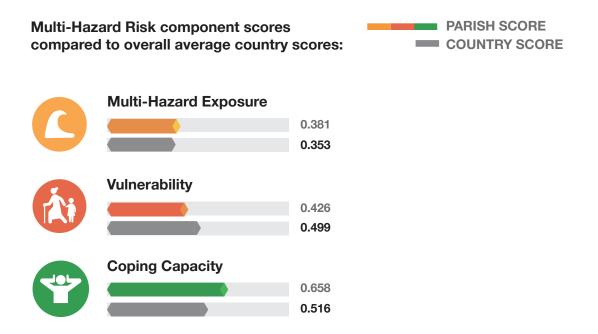
	HAZ	ARD-SPECIFIC	RISK (HSR)
(Coastal Flooding	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.376
	Mp	Earthquake	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.477
		Extreme Heat	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.477
(Flash Flood Image: Flood Image: Flood Image	RANK: 14 / 14 PARISH ASSESSED SCORE: 0.008
		Hurricane Winds	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.477
(MÈ	Landslide	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.355
	*	Sea Level Rise	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.380
		Tsunami	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.375
		Volcano	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.590
	B	Wildfire •	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.000



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.





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT JOHN CAPISTERRE

Area: 24.25 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Very Low

- High



MULTI-HAZARD RISK (MHR)

- Very High Score: 0.604 • Rank: 1/14

Score: 0.324 • Rank: 13/14

Score: 0.459 • Rank: 4/14

VULNERABILITY (V)

- Very High

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,972



Population Under Age 15 24.0%



Housing Built Prior to 2000 69.4%



Households without Home Insurance 61.5%



Coastline Exposure to Local or Global Threats **72.7%**



COPING CAPACITY (CC) - Very Low Score: 0.316 • Rank: 12/14

Score: 0.669 • Rank: 2/14



RANK: 4 / 14 PARISH SCORE: 0.459



ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

20

Buildings Exposed: **<1%** Critical Infrastructure Exposed: **20%**



Earthquake

4,320

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



Hurricane Winds **100% 4,320**

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

MÈ

Landslide

2 0

Buildings Exposed: **0%** Critical Infrastructure Exposed: **3%**



Extreme Heat

4,320

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



Flash Flood **75%**

3,250

Buildings Exposed: **86%** Critical Infrastructure Exposed: **76%**



Sea Level Rise



Buildings Exposed: **<1%** Critical Infrastructure Exposed: **13%**





Buildings Exposed: **53%** Critical Infrastructure Exposed: **49%**

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



RANK: 4 / 14 PARISH SCORE: 0.459

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 4**,320

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



Buildings Exposed: **7%** Critical Infrastructure Exposed: **2%**



RANK: 2 / 14 PARISH ASSESSED SCORE: 0.669

RANK: 7/14 PARISH ASSESSED

RANK: 12/14 PARISH ASSESSED

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

SCORE: 0.487



n

Economic Dependence

43.4 Economic Dependency Ratio 6.3% Population Age 65 and Over

n Population d Under Age 15

17.5% Youth Bulge (population ages 15-24)

1



Environmental Pressures

-0.01 Average Annual Population Change 122.1 Population Density (persons per sq km)

72.7% Coastline Exposure to Local or Global Threats

0.8% Tree Cover Loss

SCORE: 0.285



Household Infrastructure Vulnerability

1 SCORE: 0.935 RANK: 1/14 PARISH ASSESSED

69.4% Housing Built Prior to 2000

0

83.3% Households with Flush Toilets 61.5% Households without Home Insurance

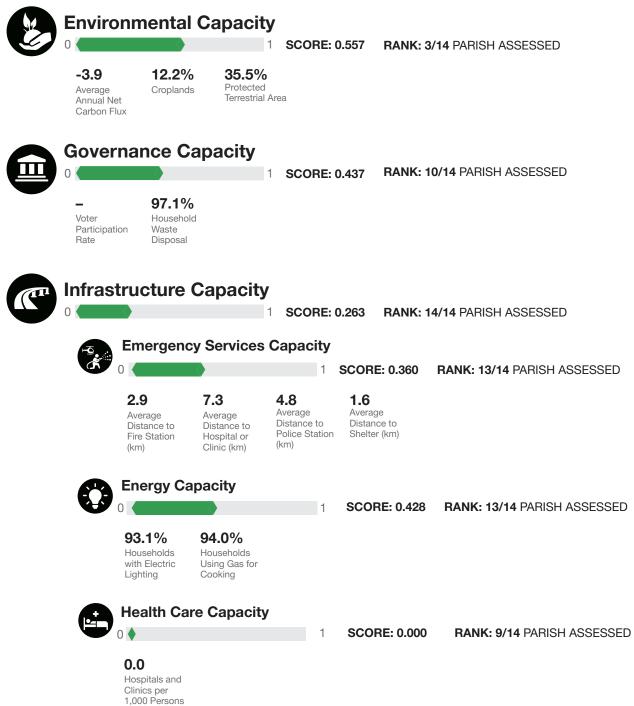
83.5% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 13 / 14 PARISH ASSESSED SCORE: 0.344

Saint John Capisterre 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.



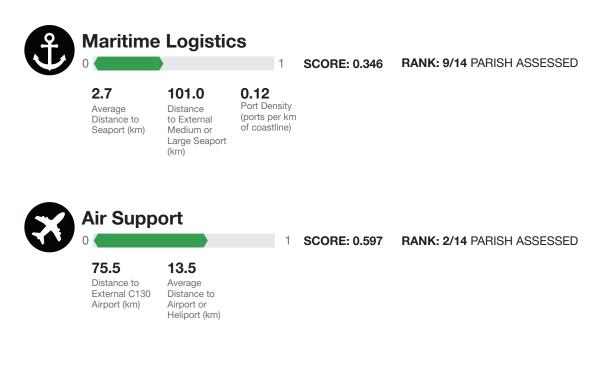
66



LOGISTICS CAPACITY (LC)

RANK: 11 / 14 PARISH ASSESSED SCORE: 0.287

Saint John Capisterre exhibits weaker Logistics Capacity in the areas of Transportation Capacity and Warehouse Access. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.







Warehouse

(km)

CDEMA Sub-Regional Focal Point (km) SCORE: 0.152 RANK: 12/14 PARISH ASSESSED



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: 12 / 14 PARISH ASSESSED SCORE: 0.316



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

RANK: 13 / 14 PARISH ASSESSED SCORE: 0.324

KEY FACTORS INFLUENCING RESILIENCE

Saint John Capisterre's score and ranking are due to Very High Vulnerability combined with Very Low 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.



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.



Warehouse Access

Efficient storage, movement and delivery of resources are key to effective humanitarian assistance and disaster relief operations. Access to both local and regional supply chains can significantly improve the speed and quality of response operations, reducing the negative social and economic impacts of an emergency.

HAZARD-SPECIFIC RISK (HSR)			
	Coastal Flooding	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.383	
	Earthquake	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.613	
	Extreme Heat	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.613	
	Flash Flood	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.778	
Q	Hurricane Winds	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.613	
	Landslide	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.092	
1	Sea Level Rise	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.305	
	Tsunami	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.484	
R	Volcano	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.720	
	Wildfire	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.220	



MULTI-HAZARD RISK (MHR)

1 / 14 RANK WITHIN PARISH Score: 0.604

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

Multi-Hazard Risk component scores compared to overall average country scores: Multi-Hazard Exposure 0.459 0.353 Vulnerability 0.669 0.499 Coping Capacity 0.316 0.516



Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



SAINT JOHN FIGTREE

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT JOHN FIGTREE

Area: 21.70 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Moderate



MULTI-HAZARD RISK (MHR)

- Low Score: 0.370 • Rank: 10/14



Total Population (2022) **4,416**



Population Under Age 15 23.4%



Housing Built Prior to 2000 52.3%



Households without Home Insurance 40.5%



Coastline Exposure to Local or Global Threats **79.0%**



MULTI-HAZARD EXPOSURE (MHE) - Low

Score: 0.336 • Rank: 9/14

Score: 0.612 • Rank: 6/14



VULNERABILITY (V) - Low Score: 0.401 • Rank: 11/14

COPING CAPACITY (CC) - High Score: 0.626 • Rank: 4/14



RANK: 9 / 14 PARISH SCORE: 0.336



Raw MHE 0.218

Relative MHE 0.453

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding 1%

£ 51

Buildings Exposed: <1% Critical Infrastructure Exposed: 13%



Earthquake 100%

4,450

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% **4,450**

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Landslide 6%

279

Buildings Exposed: 4% Critical Infrastructure Exposed: 3%



Extreme Heat 100%

4.450

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%





1,270

Buildings Exposed: 18% Critical Infrastructure Exposed: 9%



Sea Level Rise



Buildings Exposed: <1% Critical Infrastructure Exposed: 7%





Buildings Exposed: 29% Critical Infrastructure Exposed: 44%

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



RANK: 9 / 14 PARISH SCORE: 0.336

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 4**,450

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



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



RANK: 11 / 14 PARISH ASSESSED SCORE: 0.401

BANK: 4/14 PARISH ASSESSED

RANK: 4/14 PARISH ASSESSED

Vulnerability in Saint John Figtree 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

48.5 Economic Dependency Ratio 9.2% Population Age 65 and Over **23.4%** Population Under Age 15

1

15.5% Youth Bulge (population ages 15-24)

SCORE: 0.538



Environmental Pressures

0.04 Average Annual Population Change 176.4 79 Population Co Density Ex (persons per to sq km) Gli

79.0% 2 Coastline Tr Exposure Lo to Local or Global Threats

2.5% Tree Cover Loss



Household Infrastructure Vulnerability

1 SCORE: 0.218 RANK: 13/14 PARISH ASSESSED

52.3% Housing Built Prior to 2000

0

92.4% Households with Flush Toilets 40.5% Households without Home Insurance

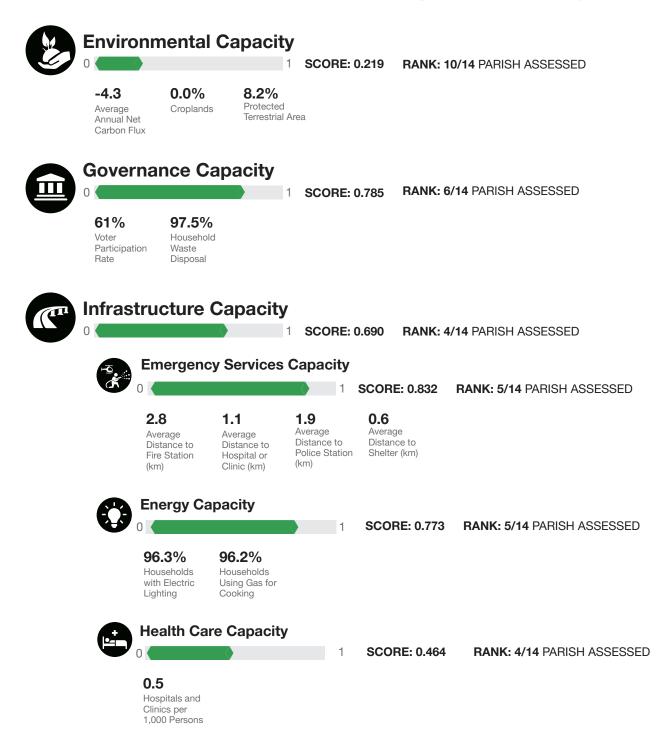
6 90.1% Ids Households Home with Piped Water



ISLAND CAPACITY (IC)

RANK: 5 / 14 PARISH ASSESSED SCORE: 0.671

Saint John Figtree 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.

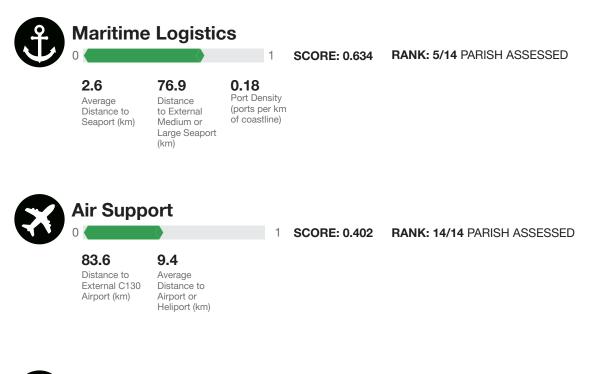




LOGISTICS CAPACITY (LC)

RANK: 5 / 14 PARISH ASSESSED SCORE: 0.580

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









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: 4 / 14 PARISH ASSESSED SCORE: 0.626



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

RANK: 6 / 14 PARISH ASSESSED SCORE: 0.612

KEY FACTORS INFLUENCING RESILIENCE

Saint John Figtree'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.



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.

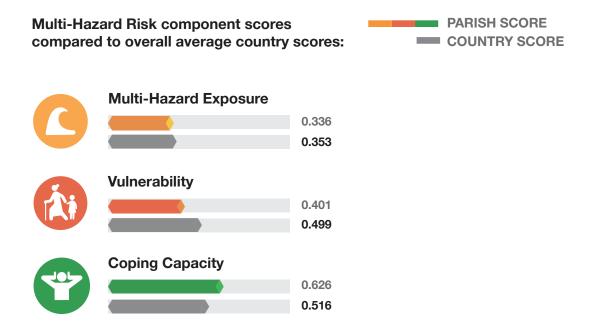
HAZ	AZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.284			
-w/m	Earthquake	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.484			
	Extreme Heat	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.484			
	Flash Flood	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.330			
Q	Hurricane Winds	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.484			
MÈ	Landslide	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.138			
*	Sea Level Rise	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.240			
(G	Tsunami	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.320			
\$	Volcano	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.595			
B	Wildfire	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.000			



MULTI-HAZARD RISK (MHR)

10 / 14 RANK WITHIN PARISH Score: 0.370

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





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT MARY CAYON

Area: 14.72 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Low



MULTI-HAZARD RISK (MHR)

- Very Low Score: 0.364 • Rank: 11/14

Score: 0.479 • Rank: 9/14

Score: 0.050 • Rank: 14/14

VULNERABILITY (V)

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 3.341



Population Under Age 15 24.8%



Housing Built Prior to 2000 69.9%



Households without Home Insurance 55.7%



Coastline Exposure to **Local or Global Threats** 74.4%



COPING CAPACITY (CC) - Low Score: 0.498 • Rank: 9/14



- Moderate

- Very Low

86 **PDC** Global



MHE 0.050

Raw MHE 0.099

Relative MHE 0.000

RANK: 14 / 14 PARISH SCORE: 0.050



Q

Hurricane Winds 100% 3,250 Buildings Exposed: 100%

Critical Infrastructure Exposed: **100%**



Earthquake

0%

20

3,250 Buildings Exposed: **100%**

Buildings Exposed: 0%

Critical Infrastructure Exposed: **100%**

Critical Infrastructure Exposed: 1%



Landslide

15% 475

Buildings Exposed: **16%** Critical Infrastructure Exposed: **17%**



Extreme Heat

3,250

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



Flash Flood



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



Sea Level Rise



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



Tsunami



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

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



RANK: 14 / 14 PARISH SCORE: 0.050

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano
0%
40

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



Buildings Exposed: **30%** Critical Infrastructure Exposed: **32%**



RANK: 7 / 14 PARISH ASSESSED SCORE: 0.540

RANK: 8/14 PARISH ASSESSED

RANK: 8/14 PARISH ASSESSED

Vulnerability in Saint Mary Cayon 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

44.2 Economic Dependency Ratio

5.9% Population Age 65 and Over

24.8% Population Under Age 15

16.7%

1

Youth Bulge (population ages 15-24)

SCORE: 0.461



Environmental Pressures 1

0.00 Average Annual Population Change

233.4 Population Density (persons per sq km)

74.4% Coastline Exposure to l ocal or Global Threats

2.1% Tree Cover Loss

SCORE: 0.449



Household Infrastructure Vulnerability

1 SCORE: 0.640 **BANK: 6/14 PARISH ASSESSED**

69.9% Housing Built Prior to 2000

0

88.4% Households with Flush Toilets

55.7% Households without Home Insurance

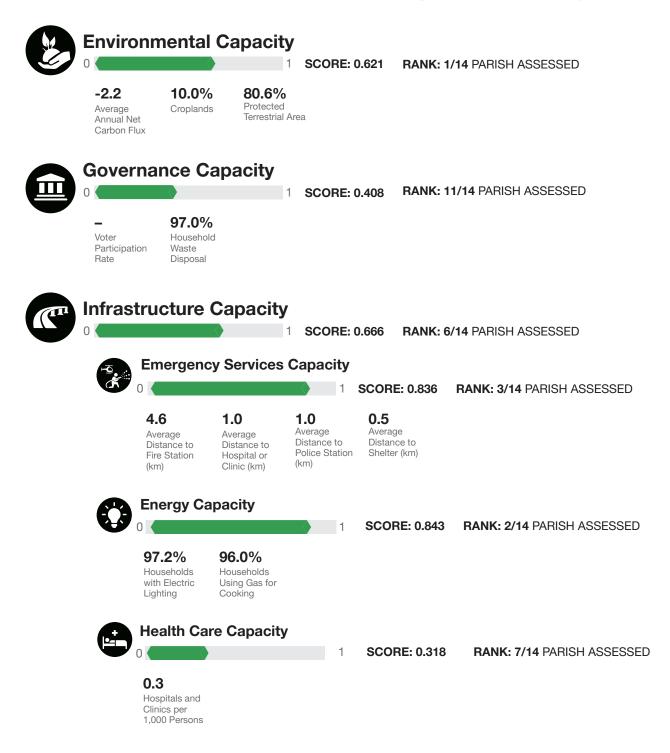
89.7% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 7 / 14 PARISH ASSESSED SCORE: 0.584

Saint Mary Cayon exhibits weaker Island Capacity in the areas of Health Care Capacity and Governance Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.

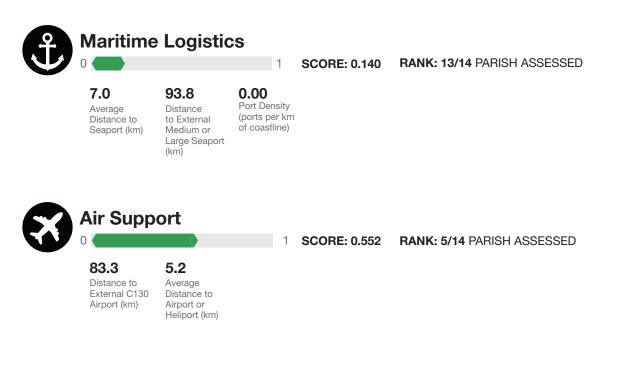


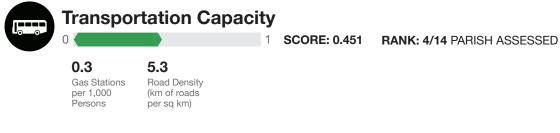
90



RANK: 9 / 14 PARISH ASSESSED SCORE: 0.413

Saint Mary Cayon 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.









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: 9 / 14 PARISH ASSESSED SCORE: 0.498



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

RANK: 9 / 14 PARISH ASSESSED SCORE: 0.479

KEY FACTORS INFLUENCING RESILIENCE

Saint Mary Cayon's score and ranking are due to Moderate Vulnerability combined with Low 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.



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.

С н	AZARD-SPECIE	FIC RISK (HSR)
Æ	Coastal Flooding	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.092
_~/	Earthquake	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.548
	Extreme Heat	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.548
Æ	Flash Flood	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.009
	Hurricane Winds	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.548
~	Landslide	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.304
1	Sea Level Rise	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.067
	Tsunami	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.073
	Volcano	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.000
C	Wildfire	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.494



MULTI-HAZARD RISK (MHR)

11 / 14 RANK WITHIN PARISH Score: 0.364

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





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT PAUL CAPISTERRE

Area: 12.66 km2

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- High Score: 0.581 • Rank: 3/14



RESILIENCE (R) - Very Low Score: 0.323 • Rank: 14/14



MULTI-HAZARD EXPOSURE (MHE) - High Score: 0.389 • Rank: 5/14



VULNERABILITY (V) - High

Score: 0.635 • Rank: 4/14



COPING CAPACITY (CC) - Very Low

- **Very Low** Score: 0.281 • Rank: 14/14





Total Population (2022) 2,468



Population Under Age 15 27.0%



Housing Built Prior to 2000 66.9%



Households without Home Insurance 60.3%



Coastline Exposure to Local or Global Threats **79.2%**



Raw MHE

Relative MHE

RANK: 5 / 14 PARISH SCORE: 0.389



ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding 0%

20

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%



Earthquake 100%

1,970

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% **1**,970 Buildings Exposed: 100%

Critical Infrastructure Exposed: 100%





234

Buildings Exposed: 3% Critical Infrastructure Exposed: 8%



Extreme Heat 100%

1,970

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Flash Flood 100%



Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Sea Level Rise

0% **2** 0

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%





Buildings Exposed: 0% Critical Infrastructure Exposed: 0%

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



RANK: 5 / 14 PARISH SCORE: 0.389

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 2**1,970

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



Buildings Exposed: **17%** Critical Infrastructure Exposed: **39%**



RANK: 4 / 14 PARISH ASSESSED SCORE: 0.635

RANK: 3/14 PARISH ASSESSED

RANK: 5/14 PARISH ASSESSED

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



n

Economic Dependence

48.8 Economic Dependency Ratio

5.8% Population Age 65 and Over

27.0% Population Under Age 15

17.2% Youth Bulge (population

SCORE: 0.647

1

ages 15-24)



Environmental Pressures 1

0.00 Average Annual Population Change

192.1 Population Density (persons per sq km)

79.2% Coastline Exposure to l ocal or Global Threats

3.3% Tree Cover Loss

SCORE: 0.479



Household Infrastructure Vulnerability

1 SCORE: 0.658 **BANK: 5/14 PARISH ASSESSED**

66.9% Housing Built Prior to 2000

0

88.9% Households with Flush Toilets

60.3% Households without Home Insurance

88.5% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 12 / 14 PARISH ASSESSED SCORE: 0.352

Saint Paul Capisterre exhibits weaker Island Capacity in the areas of Health Care Capacity and Governance Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.

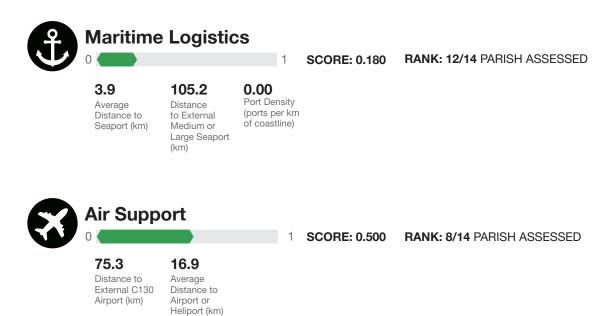
B	Enviro 0 -1.1 Average Annual Net	17.0% Croplands		1 SCORE: 0).386 RANK: 5	/14 PARISH ASSESSED
	Carbon Flu		apacity	1 SCORE: 0).173 RANK: 1	3/14 PARISH ASSESSED
(C ^r	0	Disposal	Capacity	1 SCORE: 0).437 RANK: 1	0/14 PARISH ASSESSED
		7.3 Average Distance to Fire Station (km)	4.8 Average Distance to Hospital or Clinic (km)		SCORE: 0.591 0.7 Average Distance to Shelter (km)	RANK: 12/14 PARISH ASSESSED
		Energy Ca 96.0% Households with Electric Lighting	95.2% Households Using Gas for Cooking	1	SCORE: 0.719	RANK: 8/14 PARISH ASSESSED
		Health Car 0.0 Hospitals and Clinics per 1,000 Persons	re Capacity	, 1	SCORE: 0.000	RANK: 9/14 PARISH ASSESSED

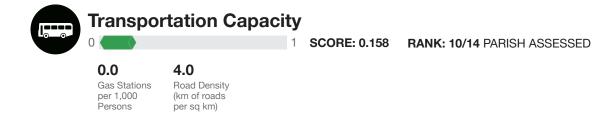


LOGISTICS CAPACITY (LC)

RANK: 14 / 14 PARISH ASSESSED SCORE: 0.210

Saint Paul Capisterre exhibits weaker Logistics Capacity in the areas of Warehouse Access and Transportation Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.





1



Average Distance to Warehouse (km) Distance to CDEMA Sub-Regional Focal Point (km) SCORE: 0.000 RANK: 14/14 PARISH ASSESSED



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: 14 / 14 PARISH ASSESSED SCORE: 0.281



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

RANK: 14 / 14 PARISH ASSESSED SCORE: 0.323

KEY FACTORS INFLUENCING RESILIENCE

Saint Paul Capisterre's score and ranking are due to High Vulnerability combined with Very Low 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.



Warehouse Access

Efficient storage, movement and delivery of resources are key to effective humanitarian assistance and disaster relief operations. Access to both local and regional supply chains can significantly improve the speed and quality of response operations, reducing the negative social and economic impacts of an emergency.



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.

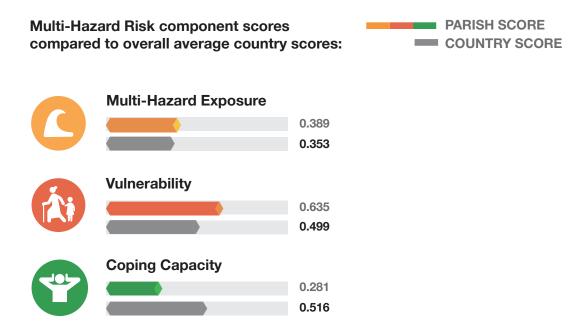
HAZ	AZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding ♦	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.000			
Mm	Earthquake	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.586			
	Extreme Heat	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.586			
	Flash Flood	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.767			
	Hurricane Winds	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.586			
- NÈ	Landslide	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.208			
	Sea Level Rise	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.000			
	Tsunami	RANK: 14 / 14 PARISH ASSESSED SCORE: 0.000			
	Volcano	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.661			
(B)	Wildfire	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.482			



MULTI-HAZARD RISK (MHR)

3 / 14 RANK WITHIN PARISH Score: 0.581

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





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT PAUL CHARLESTOWN

Area: 3.60 km2



RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Very High

- Low



MULTI-HAZARD RISK (MHR)

- Very Low Score: 0.347 • Rank: 13/14

Score: 0.631 • Rank: 2/14

Score: 0.302 • Rank: 11/14

VULNERABILITY (V)

- Moderate

MULTI-HAZARD EXPOSURE (MHE)



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%**



COPING CAPACITY (CC) - Very High Score: 0.752 • Rank: 2/14



RANK: 11 / 14 PARISH SCORE: 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%



Earthquake 100%

2,350

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% 2,350

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%

Landslide 0%

2 0

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%



Extreme Heat 100%

2.350

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Flash Flood 5%

116

Buildings Exposed: 3% Critical Infrastructure Exposed: 9%



Sea Level Rise



Buildings Exposed: 3% Critical Infrastructure Exposed: 9%





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.



RANK: 11 / 14 PARISH SCORE: 0.302

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 2**,350

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



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



RANK: 8 / 14 PARISH ASSESSED SCORE: 0.491

BANK: 11/14 PARISH ASSESSED

RANK: 1/14 PARISH ASSESSED

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

44.9 Economic Dependency Ratio 8.9% Population Age 65 and Over **22.1%** Population Under Age 15

1

15.5% Youth Bulge (population ages 15-24)

SCORE: 0.413



Environmental Pressures

0.00 Average Annual Population Change

513.1 8 Population C Density E: (persons per to sq km) G

80.2% Coastline T Exposure L to Local or Global Threats

5.9% Tree Cover Loss



Household Infrastructure Vulnerability

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

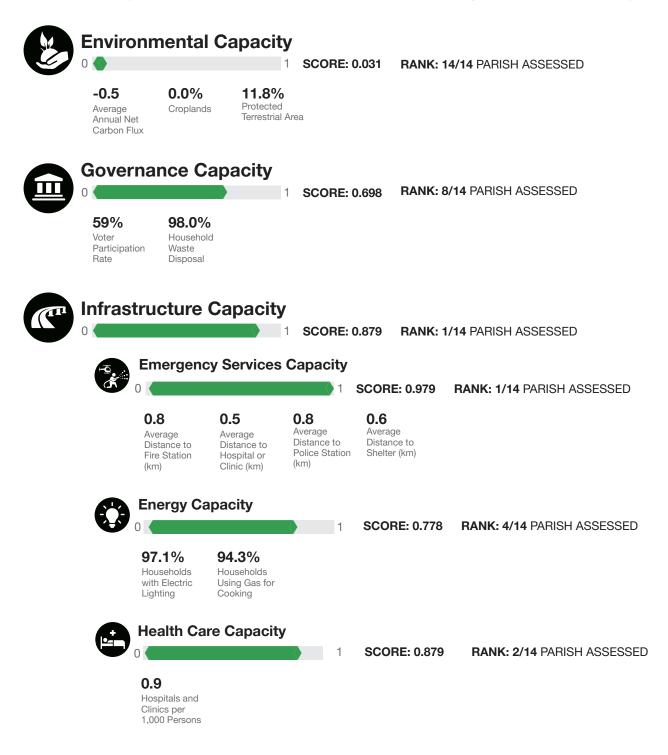
89.5% Households with Piped Water



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.

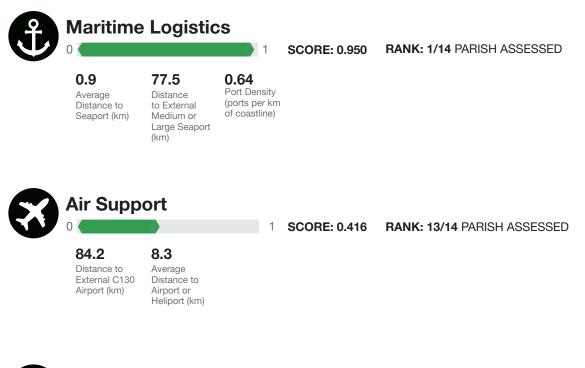


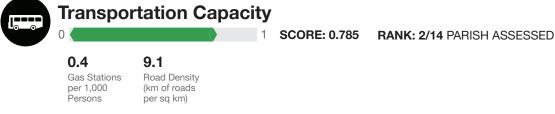


LOGISTICS CAPACITY (LC)

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.









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 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.

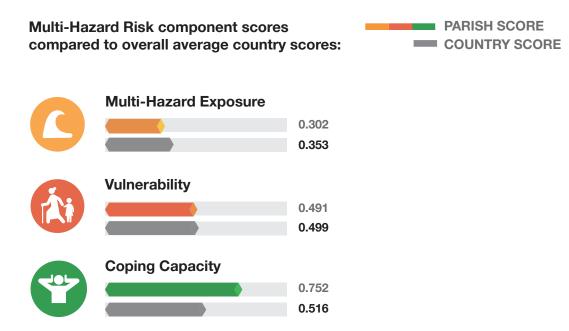
HAZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.337		
-w/m	Earthquake	RANK: 14 / 14 PARISH ASSESSED SCORE: 0.452		
	Extreme Heat	RANK: 14 / 14 PARISH ASSESSED SCORE: 0.452		
	Flash Flood	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.158		
Q	Hurricane Winds	RANK: 14 / 14 PARISH ASSESSED SCORE: 0.452		
MÈ	Landslide •	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.000		
1	Sea Level Rise	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.350		
	Tsunami	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.405		
62	Volcano	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.546		
(A)	Wildfire	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.000		



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.





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT PETER BASSETERRE

Area: 19.74 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Moderate

- Moderate

- Low



MULTI-HAZARD RISK (MHR)

- Moderate Score: 0.442 • Rank: 7/14

Score: 0.521 • Rank: 7/14

Score: 0.368 • Rank: 8/14

VULNERABILITY (V)

MULTI-HAZARD EXPOSURE (MHE)



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%**



COPING CAPACITY (CC) - Low Score: 0.489 • Rank: 10/14

PDC Global

MHE



RANK: 8 / 14 PARISH SCORE: 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%



Earthquake 100%

5,370

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% **5,370** Buildings Exposed: 100%

Critical Infrastructure Exposed: 100%



4,130

Buildings Exposed: 84% Critical Infrastructure Exposed: 55%



Extreme Heat 100%

5.370

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Flash Flood 5%

261

Buildings Exposed: 7% Critical Infrastructure Exposed: <1%



Sea Level Rise



Buildings Exposed: 1% Critical Infrastructure Exposed: 15%





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

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



Buildings Exposed: **47%** Critical Infrastructure Exposed: **61%**



RANK: 9 / 14 PARISH ASSESSED SCORE: 0.447

BANK: 9/14 PARISH ASSESSED

RANK: 2/14 PARISH ASSESSED

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

40.2 Economic Dependency Ratio 6.1% Population Age 65 and Over **22.6%** Population Under Age 15

1

18.7% Youth Bulge (population ages 15-24)

SCORE: 0.459



Environmental Pressures

0.04 Average Annual Population Change 236.6 Population Density (persons per sq km)

70.3%3CoastlineTiExposureLto Local orGlobal Threats

3.0% Tree Cover Loss



Household Infrastructure Vulnerability

1 SCORE: 0.394 RANK: 10/14 PARISH ASSESSED

60.9% Housing Built Prior to 2000 88.5% Households with Flush Toilets **35.7%** Households without Home Insurance

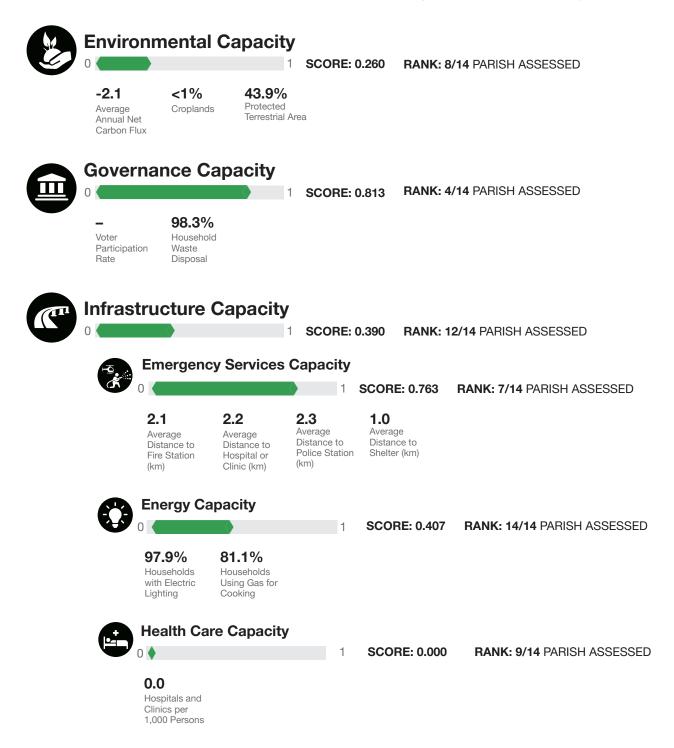
88.9% Households e with Piped Water



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.

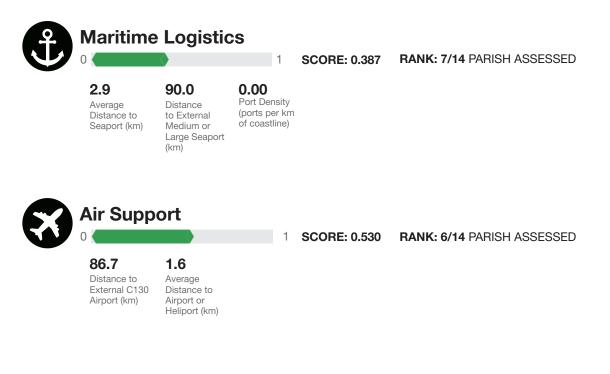


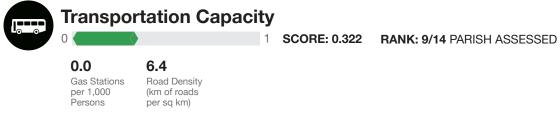


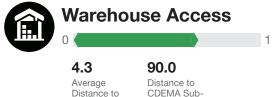
LOGISTICS CAPACITY (LC)

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.







Regional Focal

Point (km)

SCORE: 0.658 RANK: 7/14 PARISH ASSESSED

Warehouse

(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: 10 / 14 PARISH ASSESSED SCORE: 0.489



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.

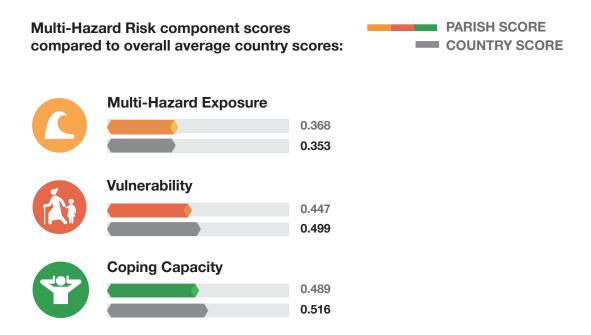
HAZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.387		
M	Earthquake	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.546		
	Extreme Heat	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.546		
	Flash Flood	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.199		
	Hurricane Winds	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.546		
MÈ	Landslide	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.640		
) I	Sea Level Rise	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.342		
	Tsunami	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.357		
	Volcano	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.000		
B	Wildfire	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.587		



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.





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT THOMAS LOWLAND

Area: 18.20 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- High

- Low



MULTI-HAZARD RISK (MHR)

- Very Low Score: 0.364 • Rank: 11/14

Score: 0.620 • Rank: 4/14

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,265



Population Under Age 15 **19.3%**



Housing Built Prior to 2000 64.9%



Households without Home Insurance **49.0%**



Coastline Exposure to Local or Global Threats **34.6%**



VULNERABILITY (V) - Very Low Score: 0.348 • Rank: 12/14

Score: 0.332 • Rank: 10/14

CO - Hi Sco

COPING CAPACITY (CC) - High Score: 0.588 • Rank: 5/14

MHE



RANK: 10 / 14 PARISH SCORE: 0.332



Raw MHE 0.140

Relative MHE 0.525

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding 5%

138

Buildings Exposed: 4% Critical Infrastructure Exposed: 20%



Earthquake 100%

2,680

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Hurricane Winds 100% **2,680** Buildings Exposed: 100%

Critical Infrastructure Exposed: 100%



Landslide 11%

306

Buildings Exposed: <1% Critical Infrastructure Exposed: 3%



Extreme Heat 100%

2.680

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



Flash Flood



Buildings Exposed: 2% Critical Infrastructure Exposed: 0%



Sea Level Rise

4% **1**03

Buildings Exposed: 3% Critical Infrastructure Exposed: 20%





Buildings Exposed: 50% Critical Infrastructure Exposed: 63%

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



RANK: 10 / 14 PARISH SCORE: 0.332

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 2**,680

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



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



RANK: 12 / 14 PARISH ASSESSED SCORE: 0.348

BANK: 14/14 PARISH ASSESSED

RANK: 6/14 PARISH ASSESSED

Vulnerability in Saint Thomas Lowland 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

37.3 Economic Dependency Ratio

0

7.9% Population Age 65 and Over

19.3% Population Under Age 15

1

15.0% Youth Bulge (population ages 15-24)

SCORE: 0.118



Environmental Pressures

0.00 Average Annual Population Change **113.73**PopulationCDensityE:(persons pertosq km)G

34.6% 7 Coastline Tr Exposure Lo to Local or Global Threats

7.0% Tree Cover Loss

SCORE: 0.461



Household Infrastructure Vulnerability

1 SCORE: 0.552 RANK: 8/14 PARISH ASSESSED

64.9% Housing Built Prior to 2000 **88.0%** Households with Flush Toilets **49.0%** Households without Home Insurance

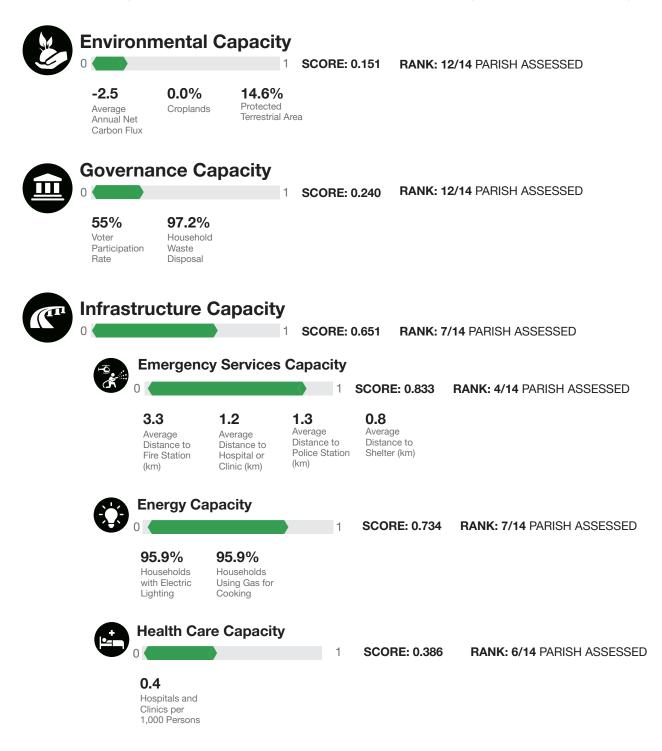
89.1% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 10 / 14 PARISH ASSESSED SCORE: 0.478

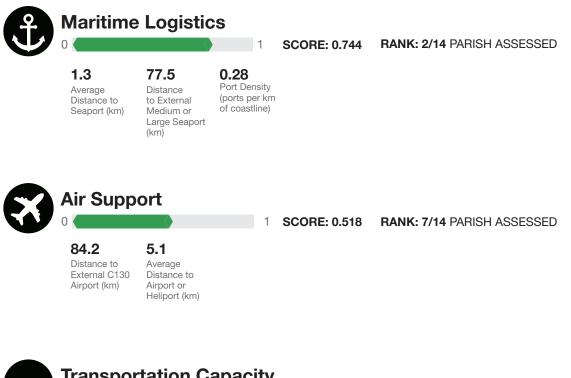
Saint Thomas Lowland exhibits weaker Island Capacity in the areas of Health Care Capacity and Governance Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.





RANK: 3 / 14 PARISH ASSESSED **SCORE: 0.699**

Saint Thomas Lowland 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.



Transportation Capacity n 1 SCORE: 0.745 RANK: 3/14 PARISH ASSESSED 0.8 5.3 Gas Stations Road Density per 1,000 (km of roads Persons per sq km)



(km)

RANK: 5/14 PARISH ASSESSED



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: 5 / 14 PARISH ASSESSED SCORE: 0.588



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

RANK: 4 / 14 PARISH ASSESSED SCORE: 0.620

KEY FACTORS INFLUENCING RESILIENCE

Saint Thomas Lowland's score and ranking are due to Very Low Vulnerability combined with 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.



Health Care Capacity

Robust access to skilled caregivers and dedicated facilities for the treatment of injury and disease during non-disaster times greatly enhances the ability of the served population to absorb and manage post-disaster impacts to health, and increases the likelihood that disaster-associated health and medical impacts may be addressed.

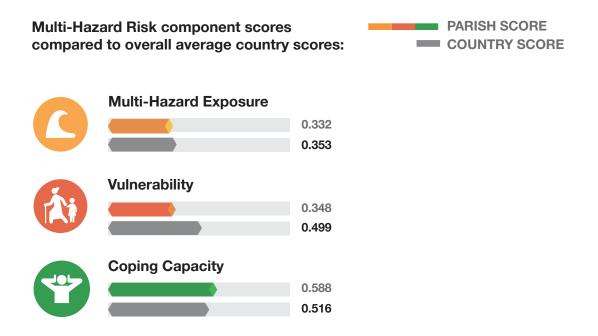
HAZ	ARD-SPECIFIC	RISK (HSR)
	Coastal Flooding	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.463
-w/n	Earthquake	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.462
	Extreme Heat	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.462
A	Flash Flood	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.098
	Hurricane Winds	RANK: 12 / 14 PARISH ASSESSED SCORE: 0.462
MÈ	Landslide	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.144
*	Sea Level Rise	RANK: 3 / 14 PARISH ASSESSED SCORE: 0.462
(Cá	Tsunami	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.404
R	Volcano	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.560
	Wildfire	RANK: 9 / 14 PARISH ASSESSED SCORE: 0.000



MULTI-HAZARD RISK (MHR)

11 / 14 RANK WITHIN PARISH Score: 0.364

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





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS

NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS SAINT THOMAS MIDDLE ISLAND

Area: 23.55 km2

RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- Very Low

- High



MULTI-HAZARD RISK (MHR)

- Very High Score: 0.585 • Rank: 2/14

Score: 0.364 • Rank: 12/14

Score: 0.483 • Rank: 3/14

VULNERABILITY (V)

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,657



Population Under Age 15 25.8%



Housing Built Prior to 2000 71.6%



Households without Home Insurance 50.8%



Coastline Exposure to Local or Global Threats **2.5%**



COPING CAPACITY (CC) - Low Score: 0.379 • Rank: 11/14



RANK: 3 / 14 PARISH SCORE: 0.483



ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

4 171

Buildings Exposed: **1%** Critical Infrastructure Exposed: **19%**



Earthquake

å 2,150

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



Hurricane Winds 100% 2,150 Buildings Exposed: 100%

Critical Infrastructure Exposed: 100%





L 1,000

Buildings Exposed: **93%** Critical Infrastructure Exposed: **56%**



Extreme Heat

2,150

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



Flash Flood



Buildings Exposed: **6%** Critical Infrastructure Exposed: **5%**



Sea Level Rise



132
 Buildings Exposed: <1%
 Critical Infrastructure Exposed: 18%





Buildings Exposed: **71%** Critical Infrastructure Exposed: **86%**

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: 3 / 14 PARISH SCORE: 0.483

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano 97% 2,080

Buildings Exposed: **92%** Critical Infrastructure Exposed: **96%**



Buildings Exposed: 2% Critical Infrastructure Exposed: 27%



RANK: 3 / 14 PARISH ASSESSED SCORE: 0.651

BANK: 1/14 PARISH ASSESSED

RANK: 14/14 PARISH ASSESSED

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



n

Economic Dependence

48.7 Economic Dependency Ratio

6.9% Population Age 65 and Over

25.8% Population Under Age 15

17.6%

1

Youth Bulge (population

SCORE: 0.678

ages 15-24)



Environmental Pressures

0.01 Average Annual Population Change

107.6 Population Density (persons per sq km)

2.5% Coastline Exposure to l ocal or Global Threats

1

0.5% Tree Cover Loss

SCORE: 0.141



Household Infrastructure Vulnerability

1 SCORE: 0.738 **BANK: 3/14 PARISH ASSESSED**

71.6% Housing Built Prior to 2000

0

86.3% Households with Flush Toilets

50.8% Households without Home Insurance

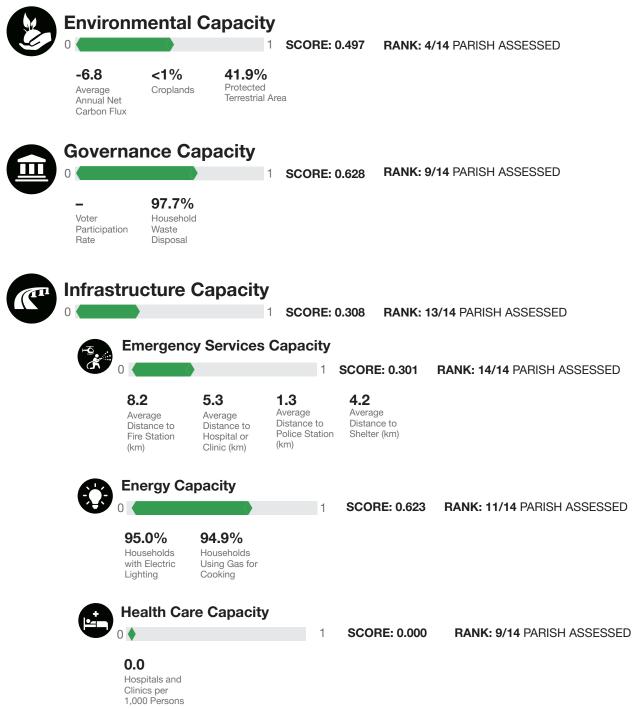
86.6% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 11 / 14 PARISH ASSESSED SCORE: 0.423

Saint Thomas Middle Island 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.

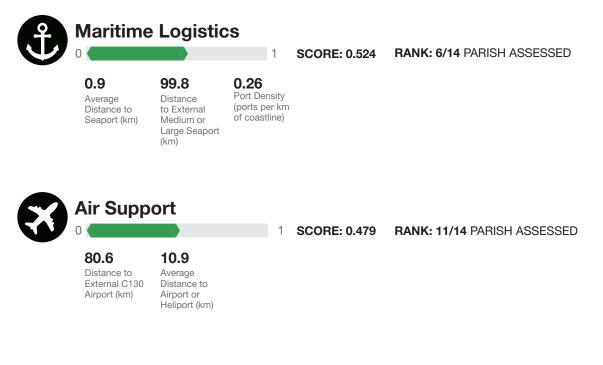




LOGISTICS CAPACITY (LC)

RANK: 10 / 14 PARISH ASSESSED **SCORE: 0.335**

Saint Thomas Middle Island exhibits weaker Logistics Capacity in the areas of Transportation Capacity and Warehouse Access. The bar charts indicate the socioeconomic themes contributing to the overall Logistics Capacity score.







(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: 11 / 14 PARISH ASSESSED SCORE: 0.379



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

RANK: 12 / 14 PARISH ASSESSED SCORE: 0.364

KEY FACTORS INFLUENCING RESILIENCE

Saint Thomas Middle Island's score and ranking are due to Very High Vulnerability combined with Low 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.



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.



Warehouse Access

Efficient storage, movement and delivery of resources are key to effective humanitarian assistance and disaster relief operations. Access to both local and regional supply chains can significantly improve the speed and quality of response operations, reducing the negative social and economic impacts of an emergency.

HAZARD-SPECIFIC RISK (HSR)			
	Coastal Flooding	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.537	
-w/m	Earthquake	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.572	
	Extreme Heat	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.572	
	Flash Flood	RANK: 8 / 14 PARISH ASSESSED SCORE: 0.200	
Q	Hurricane Winds	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.572	
MÈ	Landslide	RANK: 2 / 14 PARISH ASSESSED SCORE: 0.566	
1	Sea Level Rise	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.511	
(Cá	Tsunami	RANK: 1 / 14 PARISH ASSESSED SCORE: 0.602	
R	Volcano	RANK: 4 / 14 PARISH ASSESSED SCORE: 0.628	
(Å)	Wildfire	RANK: 7 / 14 PARISH ASSESSED SCORE: 0.332	



MULTI-HAZARD RISK (MHR)

2 / 14 RANK WITHIN PARISH Score: 0.585

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

Multi-Hazard Risk component scores compared to overall average country scores: Multi-Hazard Exposure 0.483 0.353 Vulnerability 0.651 0.499 Coping Capacity 0.379 0.516



Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org



ST. KITTS & NEVIS TRINITY PALMETTO POINT

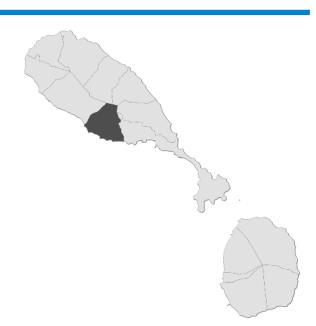
NDPBA SUBNATIONAL PROFILE



©2024 Pacific Disaster Center

ST. KITTS & NEVIS TRINITY PALMETTO POINT

Area: 14.69 km2



RISK AND VULNERABILITY COMPONENT SCORE

RESILIENCE (R)

- High

- Very Low



MULTI-HAZARD RISK (MHR)

- Very Low Score: 0.319 • Rank: 14/14

Score: 0.623 • Rank: 3/14

Score: 0.203 • Rank: 12/14

MULTI-HAZARD EXPOSURE (MHE)



Total Population (2022) 2,348



Population Under Age 15 21.2%



Housing Built Prior to 2000 65.2%



Households without Home Insurance 35.3%



Coastline Exposure to Local or Global Threats **90.8%**



COPING CAPACITY (CC) - Moderate Score: 0.502 • Rank: 8/14

VULNERABILITY (V)



RANK: 12 / 14 PARISH SCORE: 0.203



ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

1%

Buildings Exposed: **<1%** Critical Infrastructure Exposed: **6%**



Earthquake

2,520

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



Hurricane Winds **100% 2,520**

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

MÈ



& 865

Buildings Exposed: **32%** Critical Infrastructure Exposed: **49%**



Extreme Heat

100% 2.520

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



Flash Flood

2 70 **3** 682

Buildings Exposed: **28%** Critical Infrastructure Exposed: **26%**



Sea Level Rise



Buildings Exposed: **<1%** Critical Infrastructure Exposed: **6%**





Buildings Exposed: **29%** Critical Infrastructure Exposed: **42%**

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: 12 / 14 PARISH SCORE: 0.203

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

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



Buildings Exposed: **30%** Critical Infrastructure Exposed: **17%**



RANK: 14 / 14 PARISH ASSESSED **SCORE: 0.257**

BANK: 13/14 PARISH ASSESSED

RANK: 9/14 PARISH ASSESSED

Vulnerability in Trinity Palmetto Point 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

39.3 Economic Dependency Ratio

0

- 7.0% Population Age 65 and Over
 - Population

21.2% Under Age 15

1

15.8% Youth Bulge (population ages 15-24)

SCORE: 0.238



Environmental Pressures 1

0.00 Average Annual Population Change

115.8 Population Density (persons per sq km)

90.8% Coastline Exposure to l ocal or Global Threats

0.9% Tree Cover Loss

SCORE: 0.390



Household Infrastructure Vulnerability

1 SCORE: 0.246 **BANK: 12/14 PARISH ASSESSED**

65.2% Housing Built Prior to 2000

92.8% Households with Flush Toilets

35.3% Households without Home Insurance

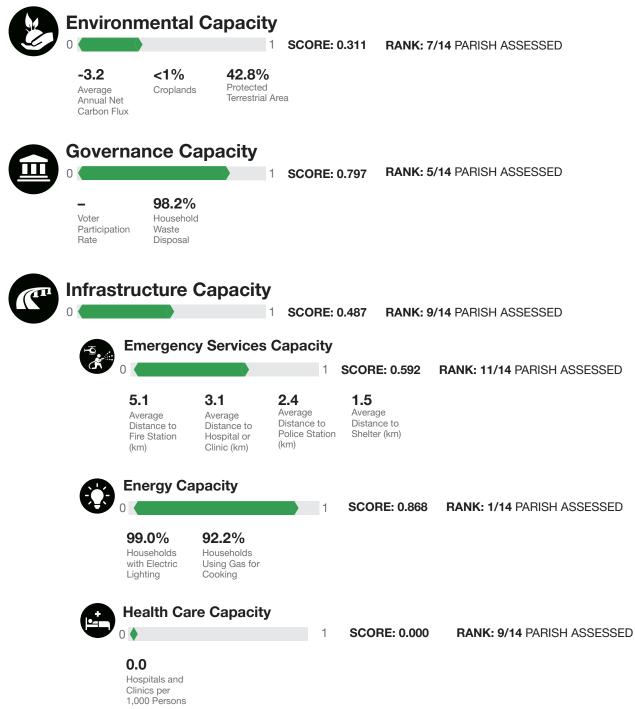
93.1% Households with Piped Water



ISLAND CAPACITY (IC)

RANK: 8 / 14 PARISH ASSESSED SCORE: 0.562

Trinity Palmetto Point 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.

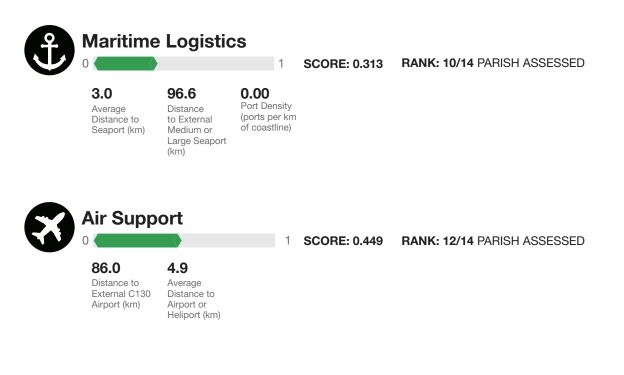


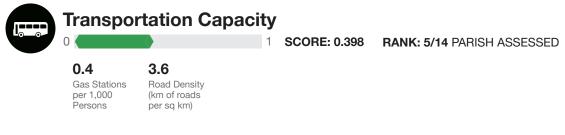


LOGISTICS CAPACITY (LC)

RANK: 8 / 14 PARISH ASSESSED SCORE: 0.442

Trinity Palmetto Point 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.







Point (km)

(km)

SCORE: 0.607 RANK: 8/14 PARISH ASSESSED



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: 8 / 14 PARISH ASSESSED SCORE: 0.502



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

RANK: 3 / 14 PARISH ASSESSED SCORE: 0.623

KEY FACTORS INFLUENCING RESILIENCE

Trinity Palmetto Point'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:



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.



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.

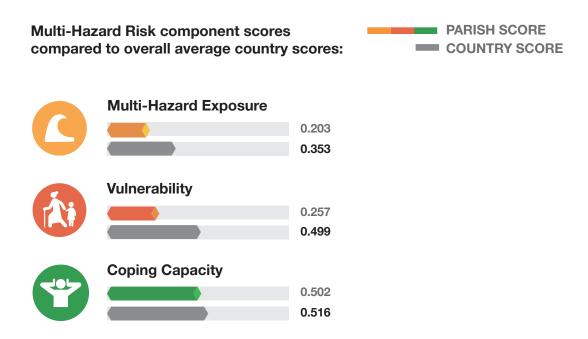
HAZARD-SPECIFIC RISK (HSR)				
	Coastal Flooding	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.211		
-M/n	Earthquake	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.455		
	Extreme Heat	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.455		
	Flash Flood	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.367		
	Hurricane Winds	RANK: 13 / 14 PARISH ASSESSED SCORE: 0.455		
	Landslide	RANK: 5 / 14 PARISH ASSESSED SCORE: 0.371		
	Sea Level Rise	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.223		
	Tsunami	RANK: 10 / 14 PARISH ASSESSED SCORE: 0.300		
	Volcano •	RANK: 11 / 14 PARISH ASSESSED SCORE: 0.000		
Ì	Wildfire	RANK: 6 / 14 PARISH ASSESSED SCORE: 0.395		



MULTI-HAZARD RISK (MHR)

14 / 14 RANK WITHIN PARISH Score: 0.319

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





Better solutions. Fewer disasters.

Sofer

1305 N. Holopono Street Suite 2, Kihei, HI 96753

| P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba.eci@pdc.org