



**ST. KITTS & NEVIS**

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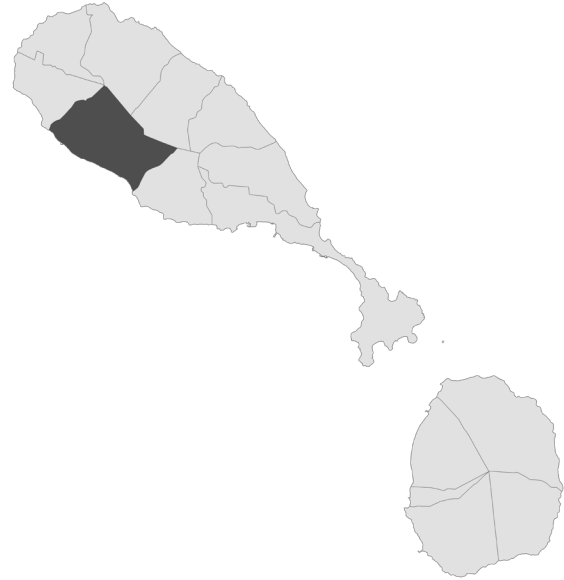
# **SAINT THOMAS MIDDLE ISLAND**

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**NDPBA SUBNATIONAL PROFILE**

# ST. KITTS & NEVIS SAINT THOMAS MIDDLE ISLAND

Area: 23.55 km<sup>2</sup>



## RISK AND VULNERABILITY COMPONENT SCORE



### MULTI-HAZARD RISK (MHR)

- Very High  
Score: 0.585 • Rank: 2/14



### RESILIENCE (R)

- Very Low  
Score: 0.364 • Rank: 12/14



### MULTI-HAZARD EXPOSURE (MHE)

- High  
Score: 0.483 • Rank: 3/14



### VULNERABILITY (V)

- Very High  
Score: 0.651 • Rank: 3/14



### COPING CAPACITY (CC)

- Low  
Score: 0.379 • Rank: 11/14



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%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 3 / 14 PARISH  
SCORE: 0.483



MHE  
0.483

Raw MHE  
0.050

Relative MHE  
0.917

## ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

**8%**

👤 171

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **19%**



Hurricane Winds

**100%**

👤 2,150

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

**100%**

👤 2,150

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

**47%**

👤 1,000

Buildings Exposed: **93%**

Critical Infrastructure Exposed: **56%**



Extreme Heat

**100%**

👤 2,150

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

**6%**

👤 132

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **18%**



Flash Flood

**5%**

👤 97

Buildings Exposed: **6%**

Critical Infrastructure Exposed: **5%**



Tsunami

**87%**

👤 1,880

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%**



Wildfire

**12%**

**249**

Buildings Exposed: **2%**

Critical Infrastructure Exposed: **27%**



## VULNERABILITY (V)

**RANK: 3 / 14 PARISH ASSESSED**  
**SCORE: 0.651**

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.



### Economic Dependence

0  1 **SCORE: 0.678** **RANK: 1/14 PARISH ASSESSED**

|  |   |  |   |
|--|---|--|---|
| <b>48.7</b><br>Economic<br>Dependency<br>Ratio | <b>6.9%</b><br>Population<br>Age 65 and<br>Over | <b>25.8%</b><br>Population<br>Under Age 15 | <b>17.6%</b><br>Youth Bulge<br>(population<br>ages 15-24) |
|--|---|--|---|



### Environmental Pressures

0  1 **SCORE: 0.141** **RANK: 14/14 PARISH ASSESSED**

|   |   |   |                                   |
|---|---|---|-----------------------------------|
| <b>0.01</b><br>Average Annual<br>Population<br>Change | <b>107.6</b><br>Population<br>Density<br>(persons per<br>sq km) | <b>2.5%</b><br>Coastline<br>Exposure<br>to Local or<br>Global Threats | <b>0.5%</b><br>Tree Cover<br>Loss |
|---|---|---|-----------------------------------|



### Household Infrastructure Vulnerability

0  1 **SCORE: 0.738** **RANK: 3/14 PARISH ASSESSED**

|  |   |   |   |
|--|---|---|---|
| <b>71.6%</b><br>Housing Built<br>Prior to 2000 | <b>86.3%</b><br>Households<br>with Flush<br>Toilets | <b>50.8%</b><br>Households<br>without Home<br>Insurance | <b>86.6%</b><br>Households<br>with Piped<br>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.



## Environmental Capacity

0 1 **SCORE: 0.497** **RANK: 4/14 PARISH ASSESSED**

|   |                            |  |
|---|----------------------------|--|
| <b>-6.8</b><br>Average Annual Net Carbon Flux | <b>&lt;1%</b><br>Croplands | <b>41.9%</b><br>Protected Terrestrial Area |
|---|----------------------------|--|



## Governance Capacity

0 1 **SCORE: 0.628** **RANK: 9/14 PARISH ASSESSED**

|                                      |  |
|--------------------------------------|--|
| <b>-</b><br>Voter Participation Rate | <b>97.7%</b><br>Household Waste Disposal |
|--------------------------------------|--|



## Infrastructure Capacity

0 1 **SCORE: 0.308** **RANK: 13/14 PARISH ASSESSED**



## Emergency Services Capacity

0 1 **SCORE: 0.301** **RANK: 14/14 PARISH ASSESSED**

|   |   |   |  |
|---|---|---|--|
| <b>8.2</b><br>Average Distance to Fire Station (km) | <b>5.3</b><br>Average Distance to Hospital or Clinic (km) | <b>1.3</b><br>Average Distance to Police Station (km) | <b>4.2</b><br>Average Distance to Shelter (km) |
|---|---|---|--|



## Energy Capacity

0 1 **SCORE: 0.623** **RANK: 11/14 PARISH ASSESSED**

|   |  |
|---|--|
| <b>95.0%</b><br>Households with Electric Lighting | <b>94.9%</b><br>Households Using Gas for Cooking |
|---|--|



## Health Care Capacity

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

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



## LOGISTICS CAPACITY (LC)

**RANK: 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.



### Maritime Logistics

0  1 **SCORE: 0.524** **RANK: 6/14 PARISH ASSESSED**

**0.9**

Average Distance to Seaport (km)

**99.8**

Distance to External Medium or Large Seaport (km)

**0.26**

Port Density (ports per km of coastline)



### Air Support

0  1 **SCORE: 0.479** **RANK: 11/14 PARISH ASSESSED**

**80.6**

Distance to External C130 Airport (km)

**10.9**

Average Distance to Airport or Heliport (km)



### Transportation Capacity

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

**0.0**

Gas Stations per 1,000 Persons

**1.7**

Road Density (km of roads per sq km)



### Warehouse Access

0  1 **SCORE: 0.337** **RANK: 11/14 PARISH ASSESSED**

**9.1**

Average Distance to Warehouse (km)

**99.8**

Distance to CDEMA Sub-Regional Focal Point (km)



## COPING CAPACITY (CC)

Coping Capacity measures the systems, means, and abilities of people and societies to absorb and respond to disruptions in normal function. Coping Capacity of St. Kitts & Nevis was calculated by using a combination of Island Capacity and Logistics Capacity.

**RANK: 11 / 14** PARISH ASSESSED  
**SCORE: 0.379**



## RESILIENCE (R)

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

**RANK: 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.

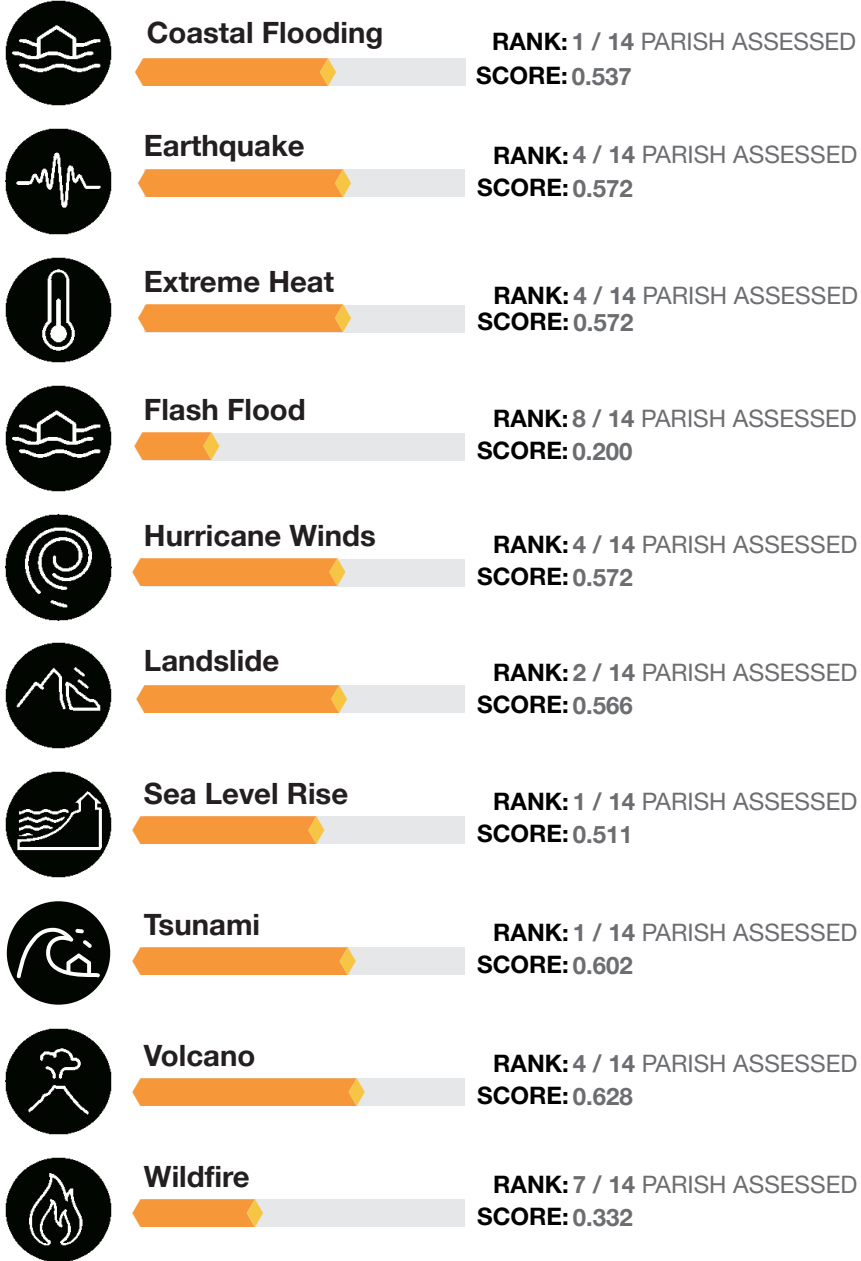


### Warehouse Access

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)





## MULTI-HAZARD RISK (MHR)

**2 / 14**

RANK WITHIN PARISH  
Score: 0.585



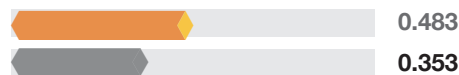
Saint Thomas Middle Island's score and ranking are due to High Multi-Hazard Exposure combined with Very High Vulnerability and Low Coping Capacity scores.

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

  PARISH SCORE  
 COUNTRY SCORE



#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



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