



ST. KITTS & NEVIS

SAINT THOMAS LOWLAND

NDPBA SUBNATIONAL PROFILE

ST. KITTS & NEVIS SAINT THOMAS LOWLAND

Area: 18.20 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very Low
Score: 0.364 • Rank: 11/14



RESILIENCE (R)

- High
Score: 0.620 • Rank: 4/14



MULTI-HAZARD EXPOSURE (MHE)

- Low
Score: 0.332 • Rank: 10/14



VULNERABILITY (V)

- Very Low
Score: 0.348 • Rank: 12/14



COPING CAPACITY (CC)

- High
Score: 0.588 • Rank: 5/14



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%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 10 / 14 PARISH
SCORE: 0.332



MHE
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%**



Hurricane Winds

100%

👤 2,680

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

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%**



Sea Level Rise

4%

👤 103

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **20%**



Flash Flood

3%

👤 83

Buildings Exposed: **2%**

Critical Infrastructure Exposed: **0%**



Tsunami

50%

👤 1,330

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.



MULTI-HAZARD EXPOSURE (MHE)

RANK: 10 / 14 PARISH
SCORE: 0.332

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

100%

2,680

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 12 / 14 PARISH ASSESSED
SCORE: 0.348

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

0  1 **SCORE: 0.118** **RANK: 14/14 PARISH ASSESSED**

37.3 Economic Dependency Ratio	7.9% Population Age 65 and Over	19.3% Population Under Age 15	15.0% Youth Bulge (population ages 15-24)
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Environmental Pressures

0  1 **SCORE: 0.461** **RANK: 6/14 PARISH ASSESSED**

0.00 Average Annual Population Change	113.7 Population Density (persons per sq km)	34.6% Coastline Exposure to Local or Global Threats	7.0% Tree Cover Loss
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Household Infrastructure Vulnerability

0  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
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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.



Environmental Capacity

0 1 **SCORE: 0.151** **RANK: 12/14 PARISH ASSESSED**

-2.5 Average Annual Net Carbon Flux	0.0% Croplands	14.6% Protected Terrestrial Area
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Governance Capacity

0 1 **SCORE: 0.240** **RANK: 12/14 PARISH ASSESSED**

55% Voter Participation Rate	97.2% Household Waste Disposal
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Infrastructure Capacity

0 1 **SCORE: 0.651** **RANK: 7/14 PARISH ASSESSED**



Emergency Services Capacity

0 1 **SCORE: 0.833** **RANK: 4/14 PARISH ASSESSED**

3.3 Average Distance to Fire Station (km)	1.2 Average Distance to Hospital or Clinic (km)	1.3 Average Distance to Police Station (km)	0.8 Average Distance to Shelter (km)
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Energy Capacity

0 1 **SCORE: 0.734** **RANK: 7/14 PARISH ASSESSED**

95.9% Households with Electric Lighting	95.9% Households Using Gas for Cooking
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Health Care Capacity

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

0.4
Hospitals and Clinics per 1,000 Persons



LOGISTICS CAPACITY (LC)

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.



Maritime Logistics

0  1 **SCORE: 0.744** **RANK: 2/14 PARISH ASSESSED**

1.3

Average Distance to Seaport (km)

77.5

Distance to External Medium or Large Seaport (km)

0.28

Port Density (ports per km of coastline)



Air Support

0  1 **SCORE: 0.518** **RANK: 7/14 PARISH ASSESSED**

84.2

Distance to External C130 Airport (km)

5.1

Average Distance to Airport or Heliport (km)



Transportation Capacity

0  1 **SCORE: 0.745** **RANK: 3/14 PARISH ASSESSED**

0.8

Gas Stations per 1,000 Persons

5.3

Road Density (km of roads per sq km)



Warehouse Access

0  1 **SCORE: 0.791** **RANK: 5/14 PARISH ASSESSED**

6.0

Average Distance to Warehouse (km)

77.5

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: 5 / 14 PARISH ASSESSED
SCORE: 0.588



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: 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.

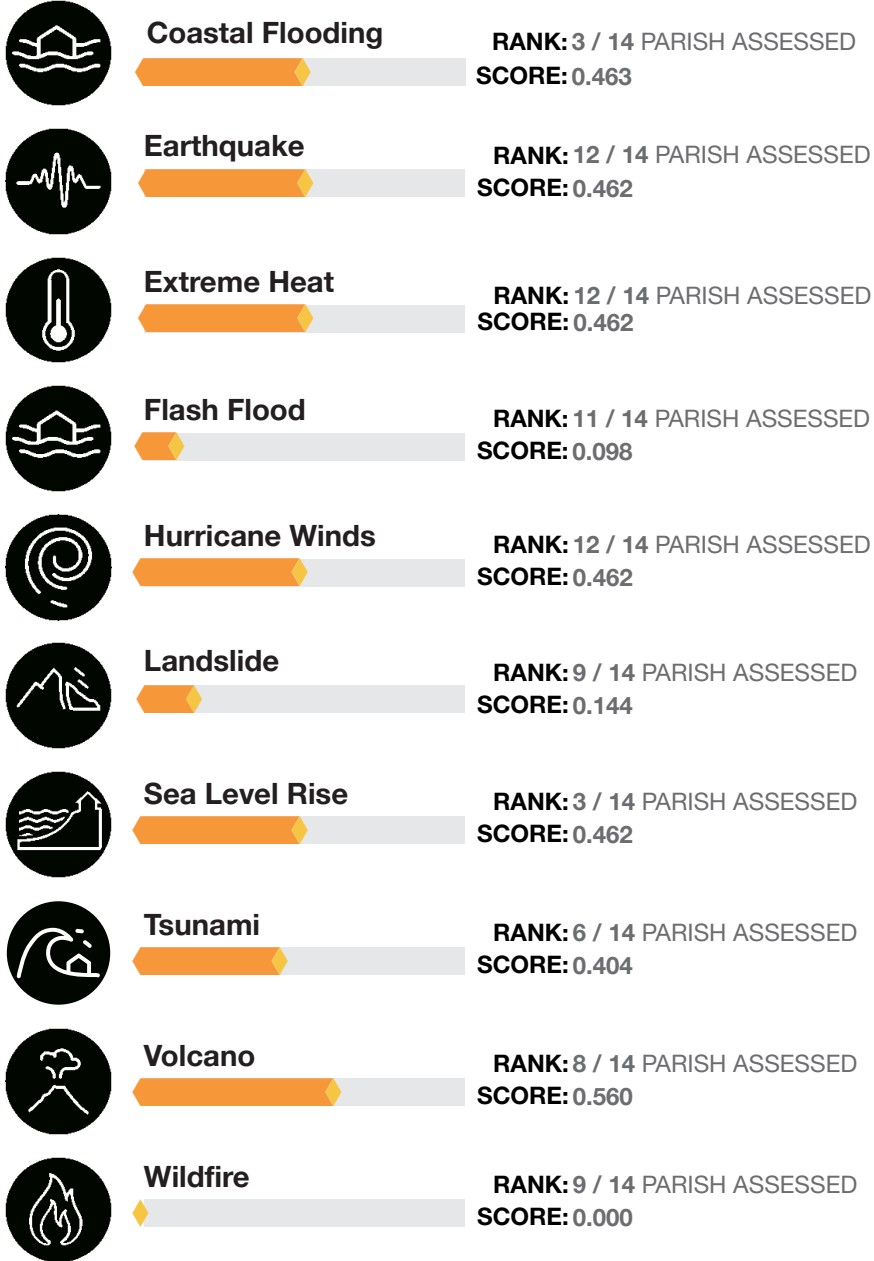


Health Care Capacity

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.



HAZARD-SPECIFIC RISK (HSR)

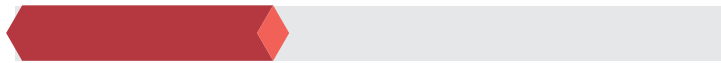




MULTI-HAZARD RISK (MHR)

11 / 14

RANK WITHIN PARISH
Score: 0.364



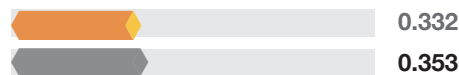
Saint Thomas Lowland's score and ranking are due to Low Multi-Hazard Exposure combined with Very Low Vulnerability and High Coping Capacity scores.

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

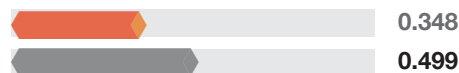
PARISH SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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