



BARBADOS

SAINT THOMAS

NDPBA SUBNATIONAL PROFILE

BARBADOS SAINT THOMAS

Area: 34 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very Low
Score: 0.303 • Rank: 10/11



RESILIENCE (R)

- Very High
Score: 0.636 • Rank: 2/11



MULTI-HAZARD EXPOSURE (MHE)

- Very Low
Score: 0.180 • Rank: 10/11



VULNERABILITY (V)

- Very Low
Score: 0.225 • Rank: 11/11



COPING CAPACITY (CC)

- Moderate
Score: 0.496 • Rank: 5/11



Population (2010 Census)

12,035



Population Density
(persons per sq km)

354



Poverty Rate

15.9%



Housing Built Prior to
1991

51.8%



Households with
Unimproved Sanitation

9.5%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 10 / 11 PARISHES ASSESSED
SCORE: 0.180



MHE
0.180

Raw MHE
0.083

Relative MHE
0.278

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Hurricane Winds

100%

16,600

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

16,600

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

11%

1,850

Buildings Exposed: **12%**

Critical Infrastructure Exposed: **0%**



Extreme Heat

44%

7,320

Buildings Exposed: **40%**

Critical Infrastructure Exposed: **66%**



Sea Level Rise

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Flash Flood

9%

1,480

Buildings Exposed: **9%**

Critical Infrastructure Exposed: **10%**



Tsunami

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 10 / 11 PARISHES ASSESSED
SCORE: 0.180

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcanic Ashfall

100%

16,600

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

16%

2,610

Buildings Exposed: **15%**

Critical Infrastructure Exposed: **23%**



VULNERABILITY (V)

RANK: 11 / 11 PARISHES ASSESSED
SCORE: 0.225

Vulnerability in Saint Thomas is primarily driven by Clean Water Access Vulnerability and Household Composition and Vulnerable Health. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.285** **RANK: 8/11 PARISHES ASSESSED**

82.7%

Primary School
Attendance
Rate

55.4%

Secondary
School
Attendance
Rate

81.6%

Household
Access to
Radio

93.1%

Household
Access to
Television



Economic Constraints

0  1 **SCORE: 0.274** **RANK: 9/11 PARISHES ASSESSED**

0.46

Economic
Dependency
Ratio

15.9%

Poverty Rate

31.5%

GINI
Coefficient



Environmental Stress

0  1 **SCORE: 0.234** **RANK: 9/11 PARISHES ASSESSED**

No Data

Coastline
Exposure to
Local or Global
Threats

6.5%

Tree Cover
Loss



Gender Inequality

0  1 **SCORE: 0.061** **RANK: 10/11 PARISHES ASSESSED**

0.10

Female to Male
Labor Ratio

0.00

Female
to Male
Secondary
School
Attendance



VULNERABILITY (V)

RANK: 11 / 11 PARISHES ASSESSED
SCORE: 0.225



Housing and Transportation Vulnerability

0  1 SCORE: 0.224 RANK: 9/11 PARISHES ASSESSED

51.8%

Housing Built
Prior to 1991

16.9%

Household
Overcrowding

36.5%

Households
without a
Private Vehicle



Household Composition and Vulnerable Health

0  1 SCORE: 0.290 RANK: 11/11 PARISHES ASSESSED

2.8

Prevalence of
Disability (per
100 persons)

10.4%

Population
Age 65 and
Over

25.2%

Population
Under Age 18



Population Pressures

0  1 SCORE: 0.103 RANK: 8/11 PARISHES ASSESSED

0.3%

Average Annual
Population
Change

354

Population
Density
(persons per
sq km)



Clean Water Access Vulnerability

0  1 SCORE: 0.332 RANK: 6/11 PARISHES ASSESSED

93.6%

Households
with Piped
Water

9.5%

Households
with
Unimproved
Sanitation



ISLAND CAPACITY (IC)

RANK: 5 / 11 PARISHES ASSESSED
SCORE: 0.544

Saint Thomas exhibits weaker Island Capacity in the areas of Energy Capacity and Communications Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Islands Capacity score.



Environmental Capacity

0 1 **SCORE: 0.321** **RANK: 5/11 PARISHES ASSESSED**

11.9% Croplands	-1.4 Net Carbon Flux	2.5% Protected Area	No Data Protected Coastlines
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Infrastructure Capacity

0 1 **SCORE: 0.640** **RANK: 6/11 PARISHES ASSESSED**



Communications Capacity

0 1 **SCORE: 0.685** **RANK: 4/11 PARISHES ASSESSED**

75.2% Households with Fixed Phones	60.5% Households with Computer	49.9% Households with Internet Access
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Emergency Services and Health Care Capacity

0 1 **SCORE: 0.745** **RANK: 2/11 PARISHES ASSESSED**

3.4 Average Distance to Fire Station (km)	1.8 Average Distance to Hospital or Clinic (km)	2.3 Average Distance to Police Station (km)	1.0 Average Distance to Shelter (km)	1.2 Hospitals and Clinics per 10,000 Persons
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Energy Capacity

0 1 **SCORE: 0.490** **RANK: 9/11 PARISHES ASSESSED**

97.6% Households with Electric Lighting	91.1% Households Using Gas for Cooking
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LOGISTICS CAPACITY (LC)

RANK: 5 / 11 PARISHES ASSESSED
SCORE: 0.449

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



Maritime Logistics

0  1 **SCORE: 0.365** **RANK: 7/11 PARISHES ASSESSED**

7.8 Average Distance to Seaport (km)	220.6 Distance to External Medium or Large Seaport (km)	No Data Port Density (ports per km of coastline)
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Air Support

0  1 **SCORE: 0.542** **RANK: 7/11 PARISHES ASSESSED**

156.5 Distance to External C130 Airport (km)	8.6 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0  1 **SCORE: 0.146** **RANK: 10/11 PARISHES ASSESSED**

0.00 Gas Stations per 1,000 Persons	6.0 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.741** **RANK: 4/11 PARISHES ASSESSED**

8.5 Average Distance to Warehouse (km)	4.6 Distance to CDEMA Sub-Regional Focal Point (km)
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COPING CAPACITY (CC)

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

RANK: 5 / 11 PARISHES ASSESSED
SCORE: 0.496



RESILIENCE (R)

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

RANK: 2 / 11 PARISHES ASSESSED
SCORE: 0.636

KEY FACTORS INFLUENCING RESILIENCE

Saint Thomas'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:



Clean Water Access Vulnerability

Those without easy or adequate access to water distribution and containment systems face significant demands on daily routines that effectively limit their response and recovery capacity and 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.



Household Composition and Vulnerable Health

Households with dependent populations, such as the very young, elderly and the disabled may have more difficulty with mobilizing and evacuating in a timely fashion and therefore become even more susceptible to harm during times of disaster. Further, the deaf or hard of hearing may not hear audible hazard alerts. Once evacuated, these populations will require additional services and care considerations in the response aftermath and during recovery. Plans and strategies must consider the special accommodations 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.

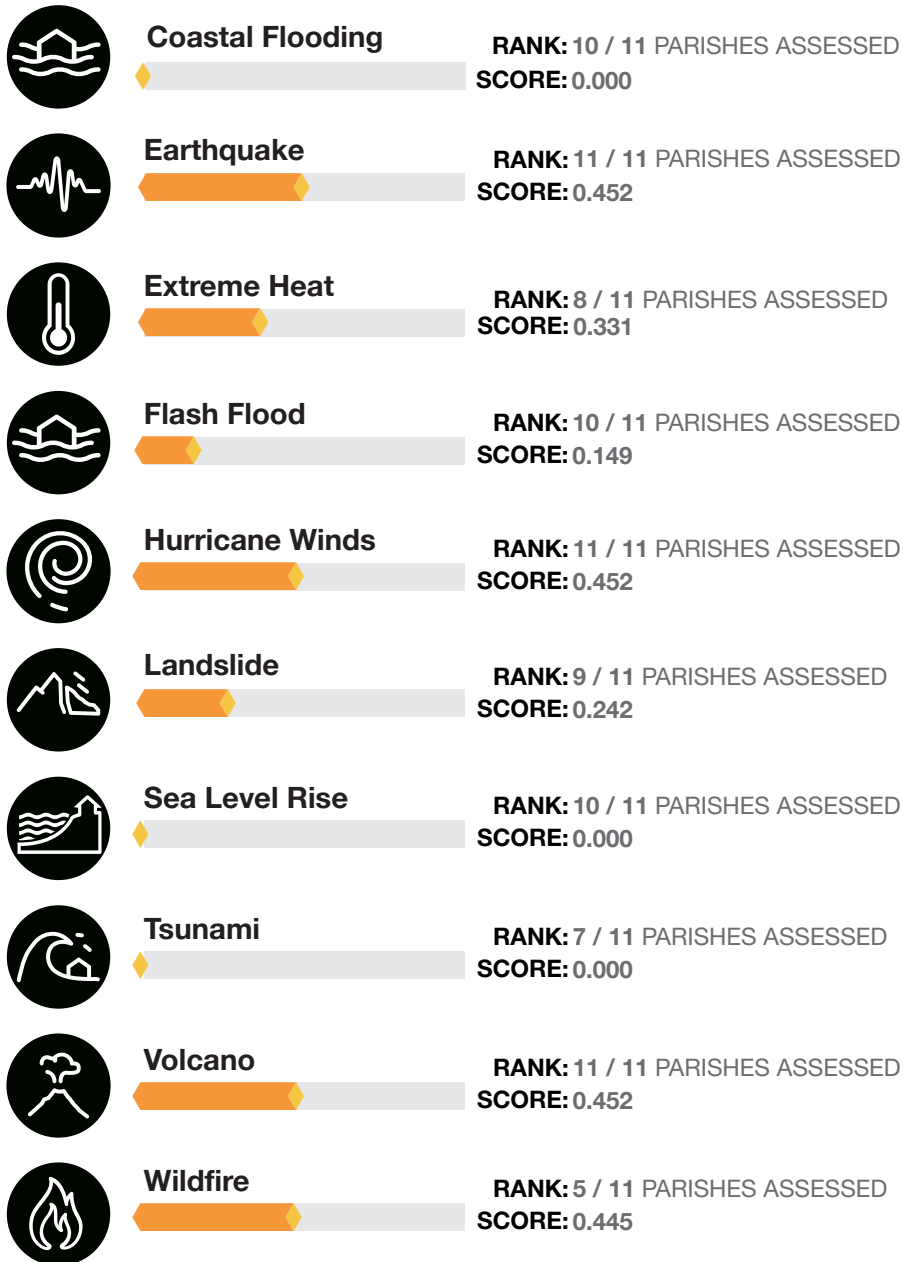


Maritime Logistics

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.



HAZARD-SPECIFIC RISK (HSR)

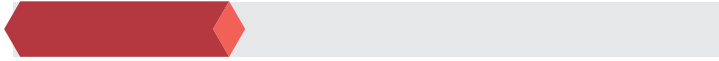




MULTI-HAZARD RISK (MHR)

10 / 11

RANK AMONG PARISHES
Score: 0.303



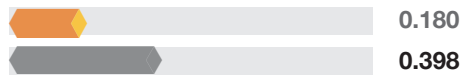
Saint Thomas's score and ranking are due to Very Low Multi-Hazard Exposure combined with Very Low Vulnerability and Moderate Coping Capacity scores.

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

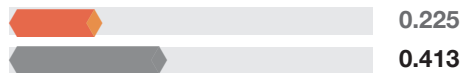
 **PARISH SCORE**
 **COUNTRY SCORE**



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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