



DOMINICA

SAINT MARK

NDPBA SUBNATIONAL PROFILE

DOMINICA SAINT MARK

Area: 13.5 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Moderate

Score: 0.435 • Rank: 6/10



RESILIENCE (R)

- High

Score: 0.613 • Rank: 4/10



MULTI-HAZARD EXPOSURE (MHE)

- Very High

Score: 0.532 • Rank: 2/10



VULNERABILITY (V)

- Moderate

Score: 0.424 • Rank: 5/10



COPING CAPACITY (CC)

- Very High

Score: 0.650 • Rank: 2/10



Total Population (2011)

1,767



Coastal Population
Concentration

92.2%



Poverty Rate

27.3%



Households with
Reduced Water
Availability

32.6%



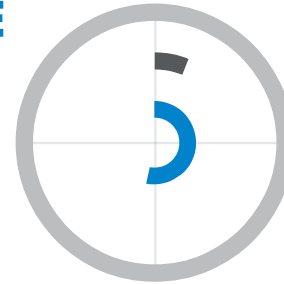
Coastline Exposure to
Local or Global Threats

57.1%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 2 / 10 PARISHES ASSESSED
SCORE: 0.532



MHE
0.532

Raw MHE
0.064

Relative MHE
1.000

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

9%

153

Buildings Exposed: **16%**

Critical Infrastructure Exposed: **28%**



Hurricane Winds

100%

1,700

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

1,700

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

35%

591

Buildings Exposed: **40%**

Critical Infrastructure Exposed: **39%**



Extreme Heat

100%

1,700

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Sea Level Rise

8%

137

Buildings Exposed: **14%**

Critical Infrastructure Exposed: **28%**



Flash Flood

25%

426

Buildings Exposed: **30%**

Critical Infrastructure Exposed: **43%**



Tsunami

4%

74

Buildings Exposed: **10%**

Critical Infrastructure Exposed: **22%**

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 2 / 10 PARISHES ASSESSED
SCORE: 0.532

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

100%

1,700

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 5 / 10 PARISHES ASSESSED
SCORE: 0.424

Vulnerability in Saint Mark is primarily driven by Environmental Stress and Household Infrastructure Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Economic Constraints

0  1 **SCORE: 0.392** **RANK: 5/10 PARISHES ASSESSED**

52.2
Economic
Dependency
Ratio

27.3%
Poverty Rate



Environmental Stress

0  1 **SCORE: 0.543** **RANK: 3/10 PARISHES ASSESSED**

92.2%
Coastal
Population
Concentration

57.1%
Coastline
Exposure
to Local or
Global Threats

8.6%
Tree Cover
Loss



Household Infrastructure Vulnerability

0  1 **SCORE: 0.532** **RANK: 3/10 PARISHES ASSESSED**

11.3%
Housing Built
Prior to 2003

32.6%
Households
with Reduced
Water
Availability



Household Composition and Vulnerable Health

0  1 **SCORE: 0.411** **RANK: 8/10 PARISHES ASSESSED**

5.2%
Prevalence of
Disability (per
100 persons)

0.3%
Institutionalized
Population

14.3%
Population
Age 65 and
Over

20.0%
Population
Under Age 15



Population Pressures

0  1 **SCORE: 0.240** **RANK: 8/10 PARISHES ASSESSED**

0.8%
Average Annual
Population
Change

130.9
Population
Density
(persons per
sq km)

15.2%
Youth Bulge
(population
ages 15-24)



ISLAND CAPACITY (IC)

RANK: 1 / 10 PARISHES ASSESSED
SCORE: 0.661

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



Environmental Capacity

0  1 **SCORE: 0.425** **RANK: 2/10 PARISHES ASSESSED**

0.00% Croplands	-0.9 Net Carbon Flux	1.0% Protected Terrestrial Area	55.5% Protected Coastlines
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Emergency Service and Health Care Capacity

0  1 **SCORE: 0.763** **RANK: 1/10 PARISHES ASSESSED**

0.4 Average Distance to Shelter (km)	0.6 Average Distance to Hospital or Clinic (km)	9.1 Average Distance to Fire Station (km)	1.2 Average Distance to Police Station (km)	1.2 Hospitals and Clinics per 1,000 Persons
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LOGISTICS CAPACITY (LC)

RANK: 3 / 10 PARISHES ASSESSED
SCORE: 0.638

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



Maritime Logistics

0  1 **SCORE: 0.567** **RANK: 3/10 PARISHES ASSESSED**

1.3 Average Distance to Seaport (km)	73.5 Distance to External Medium or Large Seaport (km)	1.0 Port Density (ports per 10 km of coastline)
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Air Support

0  1 **SCORE: 0.639** **RANK: 5/10 PARISHES ASSESSED**

77.3 Distance to External C130 Airport (km)	4.9 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0  1 **SCORE: 0.733** **RANK: 2/10 PARISHES ASSESSED**

0.6 Gas Stations per 1,000 Persons	2.3 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.614** **RANK: 5/10 PARISHES ASSESSED**

9.3 Average Distance to Warehouse (km)	297.0 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 Dominica was calculated by using a combination of Island Capacity and Logistics Capacity.

RANK: 2 / 10 PARISHES ASSESSED
SCORE: 0.650



RESILIENCE (R)

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

RANK: 4 / 10 PARISHES ASSESSED
SCORE: 0.613

KEY FACTORS INFLUENCING RESILIENCE

Saint Mark'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:



Environmental Stress

Environmental stressors such as the depletion or contamination of natural resources can exacerbate natural hazards and negatively impact the health, safety, and economic security of the population.



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. 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.



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.



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 / 10 PARISHES ASSESSED

SCORE: 0.444



Earthquake

RANK: 9 / 10 PARISHES ASSESSED

SCORE: 0.446



Extreme Heat

RANK: 3 / 10 PARISHES ASSESSED

SCORE: 0.505



Flash Flood

RANK: 9 / 10 PARISHES ASSESSED

SCORE: 0.283



Hurricane Winds

RANK: 9 / 10 PARISHES ASSESSED

SCORE: 0.446



Landslide

RANK: 6 / 10 PARISHES ASSESSED

SCORE: 0.435



Sea Level Rise

RANK: 3 / 10 PARISHES ASSESSED

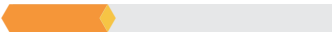
SCORE: 0.459



Tsunami

RANK: 7 / 10 PARISHES ASSESSED

SCORE: 0.285



Volcano

RANK: 6 / 10 PARISHES ASSESSED

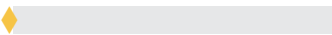
SCORE: 0.461



Wildfire

RANK: 8 / 10 PARISHES ASSESSED

SCORE: 0.000





MULTI-HAZARD RISK (MHR)

6 / 10

RANK AMONG PARISHES
Score: 0.435



Saint Mark's score and ranking are due to Very High Multi-Hazard Exposure combined with Moderate Vulnerability and Very 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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