



DOMINICA

SAINT ANDREW

NDPBA SUBNATIONAL PROFILE

DOMINICA SAINT ANDREW

Area: 179.9 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- High

Score: 0.458 • Rank: 3/10



RESILIENCE (R)

- Very Low

Score: 0.473 • Rank: 9/10



MULTI-HAZARD EXPOSURE (MHE)

- Low

Score: 0.319 • Rank: 7/10



VULNERABILITY (V)

- Very High

Score: 0.630 • Rank: 1/10



COPING CAPACITY (CC)

- High

Score: 0.576 • Rank: 4/10



Total Population (2011)

9,184



Coastal Population
Concentration

23.0%



Poverty Rate

38.1%



Households with
Reduced Water
Availability

36.2%



Coastline Exposure to
Local or Global Threats

88.2%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 7 / 10 PARISHES ASSESSED
SCORE: 0.319



MHE
0.319

Raw MHE
0.532

Relative MHE
0.106

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

1%

👤 94

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **20%**



Hurricane Winds

100%

👤 8,690

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

👤 8,690

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

12%

👤 1,010

Buildings Exposed: **11%**

Critical Infrastructure Exposed: **14%**



Extreme Heat

49%

👤 4,260

Buildings Exposed: **50%**

Critical Infrastructure Exposed: **32%**



Sea Level Rise

1%

👤 80

Buildings Exposed: **3%**

Critical Infrastructure Exposed: **20%**



Flash Flood

12%

👤 1,080

Buildings Exposed: **14%**

Critical Infrastructure Exposed: **41%**



Tsunami

2%

👤 161

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **20%**

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 7 / 10 PARISHES ASSESSED
SCORE: 0.319

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

33%

2,830

Buildings Exposed: **32%**

Critical Infrastructure Exposed: **22%**



Wildfire

2%

143

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 1 / 10 PARISHES ASSESSED
SCORE: 0.630

Vulnerability in Saint Andrew is primarily driven by Economic Constraints and Household Composition and Vulnerable Health. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Economic Constraints

0  1 **SCORE: 0.868** **RANK: 2/10 PARISHES ASSESSED**

63.4
Economic
Dependency
Ratio

38.1%
Poverty Rate



Environmental Stress

0  1 **SCORE: 0.618** **RANK: 2/10 PARISHES ASSESSED**

23.0%
Coastal
Population
Concentration

88.2%
Coastline
Exposure
to Local or
Global Threats

48.0%
Tree Cover
Loss



Household Infrastructure Vulnerability

0  1 **SCORE: 0.629** **RANK: 2/10 PARISHES ASSESSED**

11.7%
Housing Built
Prior to 2003

36.2%
Households
with Reduced
Water
Availability



Household Composition and Vulnerable Health

0  1 **SCORE: 0.748** **RANK: 1/10 PARISHES ASSESSED**

6.8%
Prevalence of
Disability (per
100 persons)

0.4%
Institutionalized
Population

13.3%
Population
Age 65 and
Over

25.5%
Population
Under Age 15



Population Pressures

0  1 **SCORE: 0.285** **RANK: 7/10 PARISHES ASSESSED**

1.2%
Average Annual
Population
Change

51.1
Population
Density
(persons per
sq km)

16.0%
Youth Bulge
(population
ages 15-24)



ISLAND CAPACITY (IC)

RANK: 2 / 10 PARISHES ASSESSED
SCORE: 0.641

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



Environmental Capacity

0  1 **SCORE: 0.683** **RANK: 1/10 PARISHES ASSESSED**

0.36% Croplands	-55.2 Net Carbon Flux	25.1% Protected Terrestrial Area	0.0% Protected Coastlines
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Emergency Service and Health Care Capacity

0  1 **SCORE: 0.623** **RANK: 5/10 PARISHES ASSESSED**

0.9 Average Distance to Shelter (km)	1.0 Average Distance to Hospital or Clinic (km)	4.8 Average Distance to Fire Station (km)	4.7 Average Distance to Police Station (km)	1.2 Hospitals and Clinics per 1,000 Persons
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LOGISTICS CAPACITY (LC)

RANK: 6 / 10 PARISHES ASSESSED
SCORE: 0.511

Saint Andrew 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: 0.538** **RANK: 4/10 PARISHES ASSESSED**

5.1 Average Distance to Seaport (km)	66.4 Distance to External Medium or Large Seaport (km)	0.2 Port Density (ports per 10 km of coastline)
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Air Support

0  1 **SCORE: 0.828** **RANK: 2/10 PARISHES ASSESSED**

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

0  1 **SCORE: 0.147** **RANK: 8/10 PARISHES ASSESSED**

0.1 Gas Stations per 1,000 Persons	1.5 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.533** **RANK: 6/10 PARISHES ASSESSED**

5.1 Average Distance to Warehouse (km)	316.8 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: 4 / 10 PARISHES ASSESSED
SCORE: 0.576



RESILIENCE (R)

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

RANK: 9 / 10 PARISHES ASSESSED
SCORE: 0.473

KEY FACTORS INFLUENCING RESILIENCE

Saint Andrew's score and ranking are due to Very High Vulnerability combined with High Coping Capacity scores.

Below are the four thematic areas with the weakest relative scores:



Economic Constraints

Economic constraints have individual, household, community, and region-wide influence. Limitations on available financial resources reduce opportunities to invest in mitigation and preparedness measures and limit the ability to facilitate short- and long-term recovery.



Household Composition and Vulnerable Health

Households with dependent populations, such as the very young, elderly and the disabled, and populations living in institutional settings 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.



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.



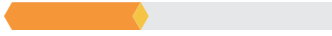
HAZARD-SPECIFIC RISK (HSR)



Coastal Flooding

RANK: 8 / 10 PARISHES ASSESSED

SCORE: 0.373



Earthquake

RANK: 2 / 10 PARISHES ASSESSED

SCORE: 0.653



Extreme Heat

RANK: 2 / 10 PARISHES ASSESSED

SCORE: 0.615



Flash Flood

RANK: 4 / 10 PARISHES ASSESSED

SCORE: 0.370



Hurricane Winds

RANK: 2 / 10 PARISHES ASSESSED

SCORE: 0.653



Landslide

RANK: 7 / 10 PARISHES ASSESSED

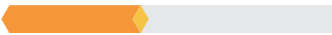
SCORE: 0.406



Sea Level Rise

RANK: 8 / 10 PARISHES ASSESSED

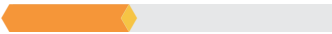
SCORE: 0.381



Tsunami

RANK: 3 / 10 PARISHES ASSESSED

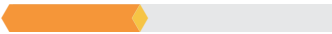
SCORE: 0.347



Volcano

RANK: 9 / 10 PARISHES ASSESSED

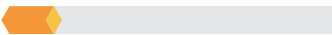
SCORE: 0.379



Wildfire

RANK: 6 / 10 PARISHES ASSESSED

SCORE: 0.129





MULTI-HAZARD RISK (MHR)

3 / 10

RANK AMONG PARISHES
Score: 0.458



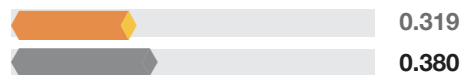
Saint Andrew's score and ranking are due to Low Multi-Hazard Exposure combined with Very High Vulnerability and High Coping Capacity scores.

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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