



DOMINICA

SAINT LUKE

NDPBA SUBNATIONAL PROFILE

DOMINICA SAINT LUKE

Area: 10.8 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Very Low

Score: 0.356 • Rank: 9/10



RESILIENCE (R)

- Very High

Score: 0.632 • Rank: 2/10



MULTI-HAZARD EXPOSURE (MHE)

- Moderate

Score: 0.333 • Rank: 6/10



VULNERABILITY (V)

- Very Low

Score: 0.285 • Rank: 10/10



COPING CAPACITY (CC)

- Moderate

Score: 0.549 • Rank: 5/10



Total Population (2011)

1,565



Coastal Population
Concentration

1.0%



Poverty Rate

17.5%



Households with
Reduced Water
Availability

20.8%



Coastline Exposure to
Local or Global Threats

0.0%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 6 / 10 PARISHES ASSESSED
SCORE: 0.333



MHE
0.333

Raw MHE
0.024

Relative MHE
0.643

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

8%

128

Buildings Exposed: **22%**

Critical Infrastructure Exposed: **30%**



Hurricane Winds

100%

1,620

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

1,620

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

29%

462

Buildings Exposed: **39%**

Critical Infrastructure Exposed: **40%**



Extreme Heat

3%

52

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **3%**



Sea Level Rise

7%

107

Buildings Exposed: **18%**

Critical Infrastructure Exposed: **30%**



Flash Flood

52%

843

Buildings Exposed: **67%**

Critical Infrastructure Exposed: **63%**



Tsunami

3%

47

Buildings Exposed: **14%**

Critical Infrastructure Exposed: **3%**

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 6 / 10 PARISHES ASSESSED
SCORE: 0.333

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

100%

1,620

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Wildfire

0%

0

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



VULNERABILITY (V)

RANK: 10 / 10 PARISHES ASSESSED
SCORE: 0.285

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



Economic Constraints

0 1 **SCORE: 0.288** **RANK: 8/10 PARISHES ASSESSED**

53.1
Economic
Dependency
Ratio

17.5%
Poverty Rate



Environmental Stress

0 1 **SCORE: 0.333** **RANK: 7/10 PARISHES ASSESSED**

1.0%
Coastal
Population
Concentration

0.0%
Coastline
Exposure
to Local or
Global Threats

4.3%
Tree Cover
Loss



Household Infrastructure Vulnerability

0 1 **SCORE: 0.116** **RANK: 10/10 PARISHES ASSESSED**

9.5%
Housing Built
Prior to 2003

20.8%
Households
with Reduced
Water
Availability



Household Composition and Vulnerable Health

0 1 **SCORE: 0.398** **RANK: 9/10 PARISHES ASSESSED**

5.2%
Prevalence of
Disability (per
100 persons)

0.2%
Institutionalized
Population

10.2%
Population
Age 65 and
Over

24.5%
Population
Under Age 15



Population Pressures

0 1 **SCORE: 0.289** **RANK: 6/10 PARISHES ASSESSED**

0.0%
Average Annual
Population
Change

144.9
Population
Density
(persons per
sq km)

16.9%
Youth Bulge
(population
ages 15-24)



ISLAND CAPACITY (IC)

RANK: 5 / 10 PARISHES ASSESSED
SCORE: 0.543

Saint Luke 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: 0.168** **RANK: 10/10 PARISHES ASSESSED**

0.00% Croplands	-1.5 Net Carbon Flux	0.0% Protected Terrestrial Area	0.0% Protected Coastlines
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Emergency Service and Health Care Capacity

0  1 **SCORE: 0.704** **RANK: 3/10 PARISHES ASSESSED**

0.5 Average Distance to Shelter (km)	0.5 Average Distance to Hospital or Clinic (km)	5.0 Average Distance to Fire Station (km)	3.7 Average Distance to Police Station (km)	0.6 Hospitals and Clinics per 1,000 Persons
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LOGISTICS CAPACITY (LC)

RANK: 4 / 10 PARISHES ASSESSED
SCORE: 0.555

Saint Luke 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: 0.529** **RANK: 5/10 PARISHES ASSESSED**

1.3 Average Distance to Seaport (km)	77.2 Distance to External Medium or Large Seaport (km)	1.9 Port Density (ports per 10 km of coastline)
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Air Support

0  1 **SCORE: 0.636** **RANK: 6/10 PARISHES ASSESSED**

81.1 Distance to External C130 Airport (km)	3.2 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0  1 **SCORE: 0.281** **RANK: 6/10 PARISHES ASSESSED**

0.0 Gas Stations per 1,000 Persons	2.5 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.773** **RANK: 2/10 PARISHES ASSESSED**

5.2 Average Distance to Warehouse (km)	301.1 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: 5 / 10 PARISHES ASSESSED
SCORE: 0.549



RESILIENCE (R)

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

RANK: 2 / 10 PARISHES ASSESSED
SCORE: 0.632

KEY FACTORS INFLUENCING RESILIENCE

Saint Luke'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:



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.



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.



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.

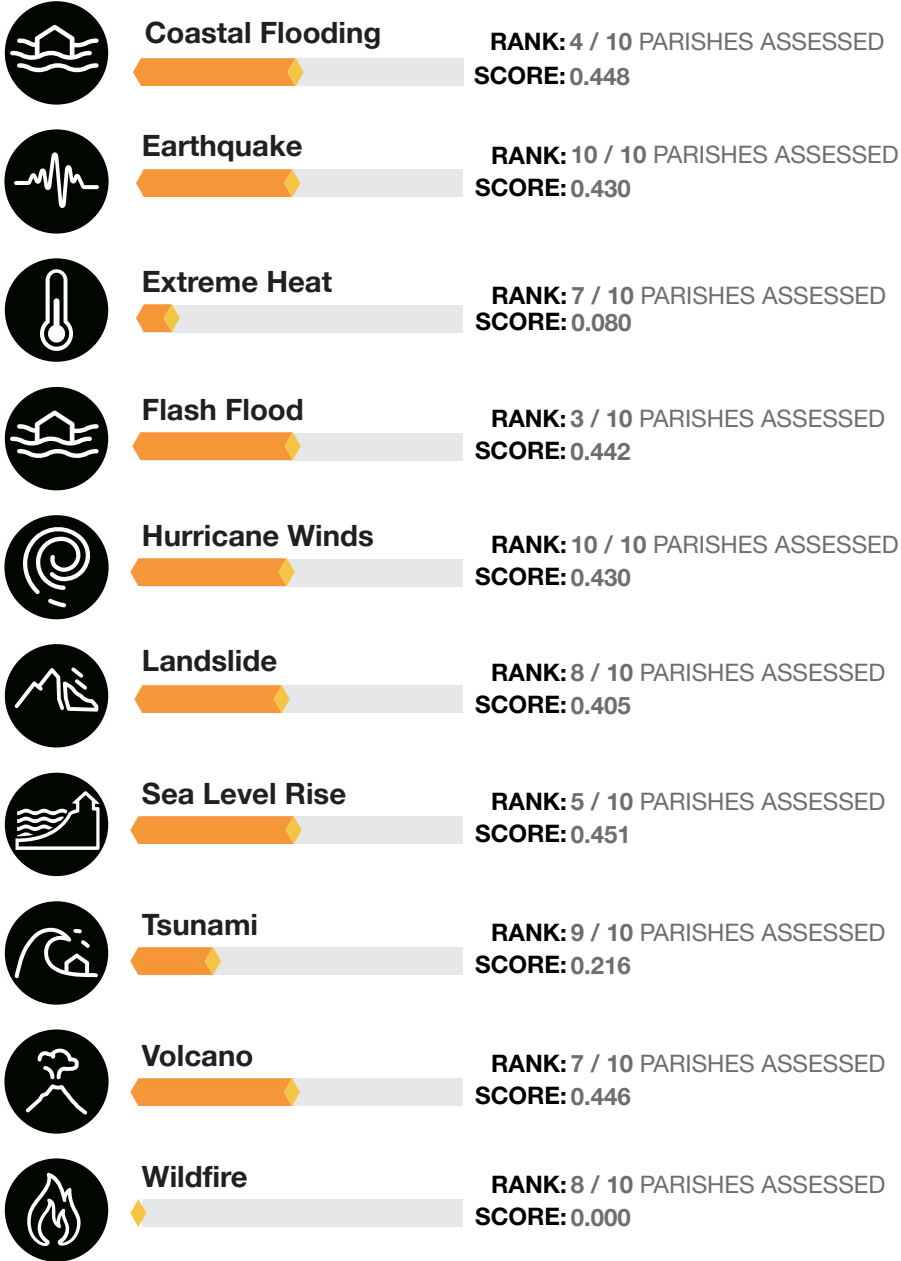


Maritime Logistics

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)

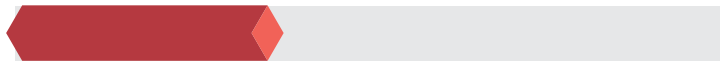




MULTI-HAZARD RISK (MHR)

9 / 10

RANK AMONG PARISHES
Score: 0.356



Saint Luke's score and ranking are due to Moderate 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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