



DOMINICA

SAINT JOSEPH

NDPBA SUBNATIONAL PROFILE

DOMINICA SAINT JOSEPH

Area: 118.4 km²



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR)

- Low
Score: 0.428 • Rank: 7/10



RESILIENCE (R)

- Low
Score: 0.474 • Rank: 8/10



MULTI-HAZARD EXPOSURE (MHE)

- Low
Score: 0.231 • Rank: 8/10



VULNERABILITY (V)

- Moderate
Score: 0.412 • Rank: 6/10



COPING CAPACITY (CC)

- Low
Score: 0.359 • Rank: 8/10



Total Population (2011)
5,434



Coastal Population
Concentration
32.1%



Poverty Rate
47.2%



Households with
Reduced Water
Availability
50.7%



Coastline Exposure to
Local or Global Threats
21.6%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 10 PARISHES ASSESSED
SCORE: 0.231



MHE
0.231

Raw MHE
0.283

Relative MHE
0.179

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

3%

150

Buildings Exposed: **5%**

Critical Infrastructure Exposed: **17%**



Hurricane Winds

100%

5,430

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Earthquake

100%

5,430

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Landslide

21%

1,140

Buildings Exposed: **19%**

Critical Infrastructure Exposed: **43%**



Extreme Heat

11%

593

Buildings Exposed: **24%**

Critical Infrastructure Exposed: **12%**



Sea Level Rise

2%

133

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **17%**



Flash Flood

12%

650

Buildings Exposed: **18%**

Critical Infrastructure Exposed: **40%**



Tsunami

2%

108

Buildings Exposed: **6%**

Critical Infrastructure Exposed: **16%**

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 10 PARISHES ASSESSED
SCORE: 0.231

ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano

40%

2,160

Buildings Exposed: **45%**

Critical Infrastructure Exposed: **40%**



Wildfire

18%

1,000

Buildings Exposed: **18%**

Critical Infrastructure Exposed: **11%**



VULNERABILITY (V)

RANK: 6 / 10 PARISHES ASSESSED
SCORE: 0.412

Vulnerability in Saint Joseph 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: 0.636** **RANK: 4/10 PARISHES ASSESSED**

51.3
Economic
Dependency
Ratio

47.2%
Poverty Rate



Environmental Stress

0  1 **SCORE: 0.362** **RANK: 6/10 PARISHES ASSESSED**

32.1%
Coastal
Population
Concentration

21.6%
Coastline
Exposure
to Local or
Global Threats

41.0%
Tree Cover
Loss



Household Infrastructure Vulnerability

0  1 **SCORE: 0.393** **RANK: 6/10 PARISHES ASSESSED**

9.3%
Housing Built
Prior to 2003

50.7%
Households
with Reduced
Water
Availability



Household Composition and Vulnerable Health

0  1 **SCORE: 0.467** **RANK: 5/10 PARISHES ASSESSED**

6.3%
Prevalence of
Disability (per
100 persons)

0.2%
Institutionalized
Population

13.6%
Population
Age 65 and
Over

20.4%
Population
Under Age 15



Population Pressures

0  1 **SCORE: 0.201** **RANK: 9/10 PARISHES ASSESSED**

0.7%
Average Annual
Population
Change

45.9
Population
Density
(persons per
sq km)

16.0%
Youth Bulge
(population
ages 15-24)



ISLAND CAPACITY (IC)

RANK: 8 / 10 PARISHES ASSESSED
SCORE: 0.430

Saint Joseph 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: 0.191** **RANK: 8/10 PARISHES ASSESSED**

0.00% Croplands	109.0 Net Carbon Flux	25.7% Protected Terrestrial Area	0.0% Protected Coastlines
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Emergency Service and Health Care Capacity

0  1 **SCORE: 0.532** **RANK: 7/10 PARISHES ASSESSED**

1.4 Average Distance to Shelter (km)	1.4 Average Distance to Hospital or Clinic (km)	4.7 Average Distance to Fire Station (km)	3.1 Average Distance to Police Station (km)	1.3 Hospitals and Clinics per 1,000 Persons
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LOGISTICS CAPACITY (LC)

RANK: 9 / 10 PARISHES ASSESSED
SCORE: 0.289

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



Maritime Logistics

0  1 **SCORE: 0.313** **RANK: 8/10 PARISHES ASSESSED**

4.3 Average Distance to Seaport (km)	82.2 Distance to External Medium or Large Seaport (km)	0.9 Port Density (ports per 10 km of coastline)
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Air Support

0  1 **SCORE: 0.095** **RANK: 10/10 PARISHES ASSESSED**

85.7 Distance to External C130 Airport (km)	10.8 Average Distance to Airport or Heliport (km)
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Transportation Capacity

0  1 **SCORE: 0.540** **RANK: 4/10 PARISHES ASSESSED**

0.6 Gas Stations per 1,000 Persons	1.6 Road Density (km of roads per sq km)
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Warehouse Access

0  1 **SCORE: 0.207** **RANK: 10/10 PARISHES ASSESSED**

11.9 Average Distance to Warehouse (km)	314.3 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: 8 / 10 PARISHES ASSESSED
SCORE: 0.359



RESILIENCE (R)

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

RANK: 8 / 10 PARISHES ASSESSED
SCORE: 0.474

KEY FACTORS INFLUENCING RESILIENCE

Saint Joseph's score and ranking are due to Moderate Vulnerability combined with Low 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.



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.

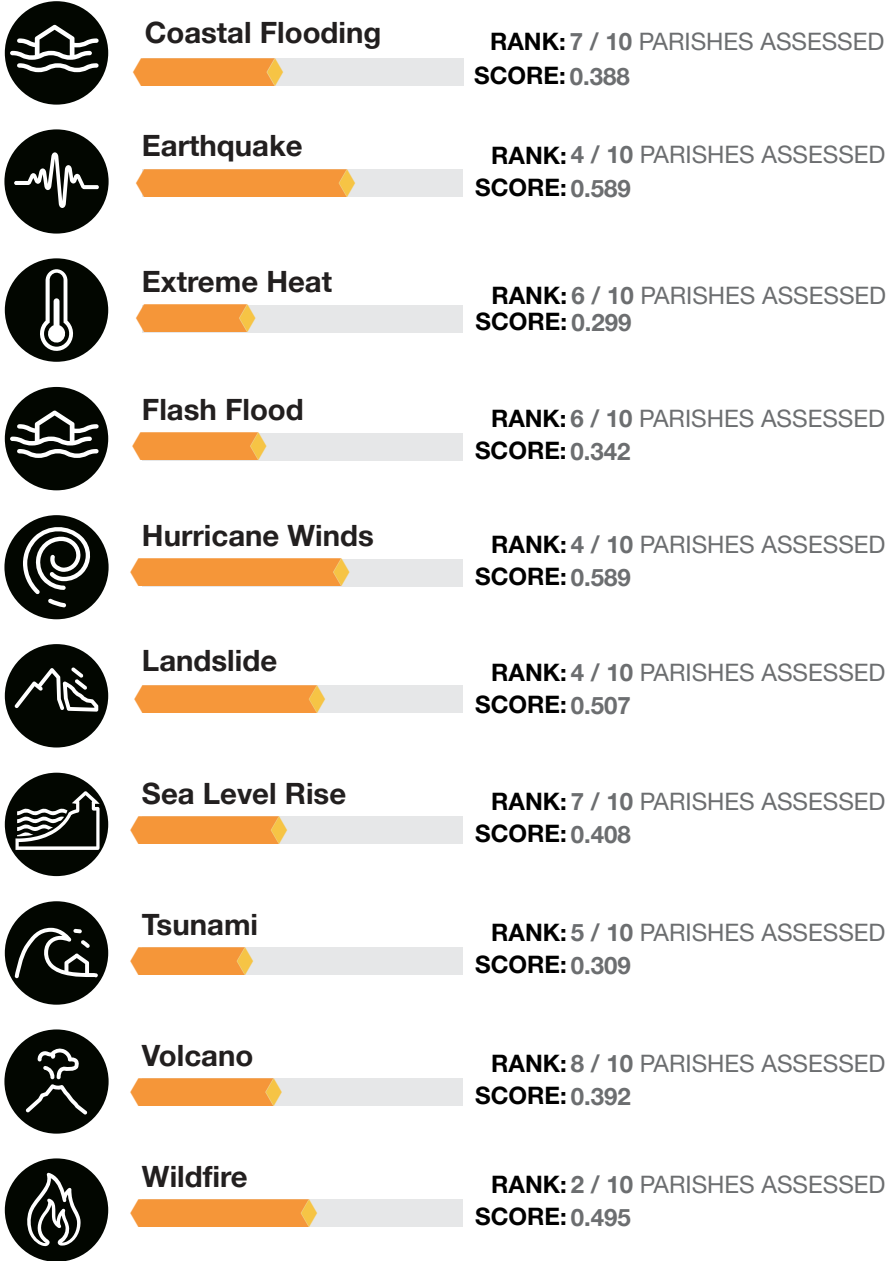


Warehouse Access

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)





MULTI-HAZARD RISK (MHR)

7 / 10

RANK AMONG PARISHES
Score: 0.428



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

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

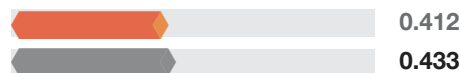
 PARISH SCORE
 COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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