

# DOMINICA \_\_\_\_\_

# NDPBA SUBNATIONAL PROFILE



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PARISH PROFILE



Area: 56.2 km2



### **RISK AND VULNERABILITY** COMPONENT SCORE

**RESILIENCE (R)** 

- Very High

- Very High

- Very Low



**MULTI-HAZARD RISK (MHR)** 

- Moderate Score: 0.436 • Rank: 5/10

Score: 0.689 • Rank: 1/10

Score: 0.686 • Rank: 1/10

**VULNERABILITY (V)** 

**MULTI-HAZARD EXPOSURE (MHE)** 



Total Population (2011) 20.791



**Coastal Population** Concentration 32.0%



**Poverty Rate** 13.7%



Households with **Reduced Water** Availability 14.1%



**Coastline Exposure to** Local or Global Threats 12.5%



**COPING CAPACITY (CC)** Score: 0.710 • Rank: 1/10

Score: 0.332 • Rank: 9/10

- Very High

MHE 0.686



**RANK: 1 / 10 PARISHES ASSESSED** SCORE: 0.686



**Raw MHE** 1.000

**Relative MHE** 0.372

# **ESTIMATED EXPOSURE TO EACH HAZARD:**



**Coastal Flooding** 3%

**603** 

Buildings Exposed: 4% Critical Infrastructure Exposed: 12%



Earthquake 100%

**21,700** 

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



**Hurricane Winds** 100% **21,700** 

Buildings Exposed: 100% Critical Infrastructure Exposed: 100%



**4**,510

Buildings Exposed: 22% Critical Infrastructure Exposed: 11%



**Extreme Heat** 

### 0% **A** 0

Buildings Exposed: 0% Critical Infrastructure Exposed: 0%





16%

**3.540** 

Buildings Exposed: 25% Critical Infrastructure Exposed: 52%



Sea Level Rise



Buildings Exposed: 3% Critical Infrastructure Exposed: 12%



Tsunami 5%

# **1,080**

Buildings Exposed: 9% Critical Infrastructure Exposed: 20%

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

### PARISH PROFILE

# MULTI-HAZARD EXPOSURE (MHE)

RANK: 1 / 10 PARISHES ASSESSED SCORE: 0.686

## ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcano **100% 21,700** 

Buildings Exposed: **100%** Critical Infrastructure Exposed: **100%** 



Buildings Exposed: **16%** Critical Infrastructure Exposed: **15%** 



### **RANK: 9 / 10 PARISHES ASSESSED SCORE: 0.332**

RANK: 9/10 PARISHES ASSESSED

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

SCORE: 0.113

1

1



# **Economic Constraints**

49.0 Economic Dependency Ratio

13.7% Poverty Rate



# Environmental Stress

SCORE: 0.149 RANK: 10/10 PARISHES ASSESSED

32.0% Coastal Population Concentration

8.5% 12.5% Tree Cover Coastline Loss Exposure to Local or **Global Threats** 



# Household Infrastructure Vulnerability

1 SCORE: 0.283 RANK: 7/10 PARISHES ASSESSED

11.0% Housing Built Prior to 2003



### Household Composition and Vulnerable Health 1

SCORE: 0.464 RANK: 6/10 PARISHES ASSESSED

4.4% Prevalence of Disability (per 100 persons)

1.5% Institutionalized Population

10.2% 22.7% Population Population Age 65 and Under Age 15



# **Population Pressures**

370.0

Density

Population

(persons per sq km)

0.5% Average Annual Population Change

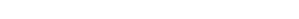
17.6% Youth Bulge (population ages 15-24)

1

Over

SCORE: 0.650

RANK: 2/10 PARISHES ASSESSED



### PARISH PROFILE



# **ISLAND CAPACITY (IC)**

### **RANK: 3 / 10 PARISHES ASSESSED SCORE: 0.630**

RANK: 2/10 PARISHES ASSESSED

Saint George 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**

SCORE: 0.326 1 RANK: 5/10 PARISHES ASSESSED 0.00% -3.1 21.3% 0.0% Protected Protected Croplands Net Carbon Terrestrial Area Coastlines Flux

1 SCORE: 0.761

2.6

(km)

Average



## **Emergency Service and Health Care Capacity**

0.4 Average Distance to Shelter (km)

0.7 Average Distance to Hospital or Clinic (km)

2.6 Average Distance to Fire Station (km)

0.7 Hospitals and Distance to Clinics per Police Station 1,000 Persons

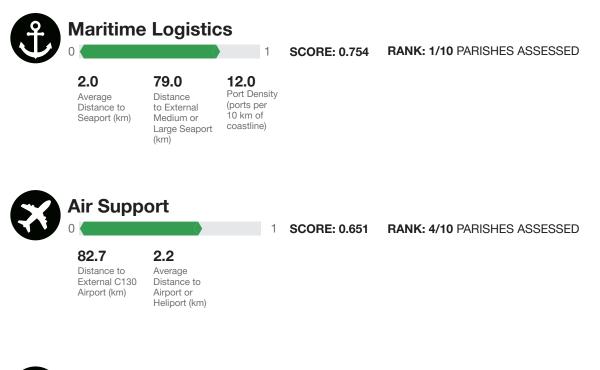
**PDC** Global 30

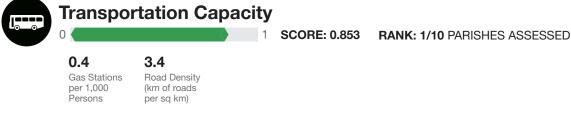


# **LOGISTICS CAPACITY (LC)**

**RANK: 1 / 10 PARISHES ASSESSED SCORE: 0.789** 

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







(km)



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: 1 / 10 PARISHES ASSESSED SCORE: 0.710



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

# RANK: 1 / 10 PARISHES ASSESSED SCORE: 0.689

# **KEY FACTORS INFLUENCING RESILIENCE**

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

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



# **Population Pressures**

Rapid changes in population size and distribution can alter population vulnerability characteristics presenting planning challenges and destabilizing social, economic, and environmental systems. Increased population pressures require disaster managers to realign needs, institutional structures, and available resources to support delivery of basic resources before, during, and after an event.



# 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.



# **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.

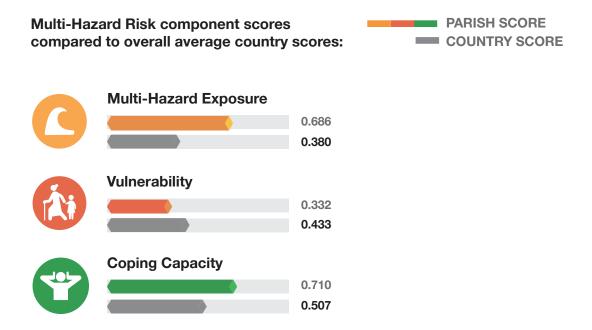
HAZ	RISK (HSR)	
	Coastal Flooding	RANK: 6 / 10 PARISHES ASSESSED SCORE: 0.435
-Mh-	Earthquake	RANK: 6 / 10 PARISHES ASSESSED SCORE: 0.558
	Extreme Heat	RANK: 8 / 10 PARISHES ASSESSED SCORE: 0.000
	Flash Flood	RANK: 2 / 10 PARISHES ASSESSED SCORE: 0.459
Q	Hurricane Winds	RANK: 6 / 10 PARISHES ASSESSED SCORE: 0.558
MÈ	Landslide	RANK: 5 / 10 PARISHES ASSESSED SCORE: 0.464
	Sea Level Rise	RANK: 6 / 10 PARISHES ASSESSED SCORE: 0.434
	Tsunami	RANK: 2 / 10 PARISHES ASSESSED SCORE: 0.427
	Volcano	RANK: 3 / 10 PARISHES ASSESSED SCORE: 0.558
	Wildfire	RANK: 3 / 10 PARISHES ASSESSED SCORE: 0.450



# **MULTI-HAZARD RISK (MHR)**

5 / 10 RANK AMONG PARISHES Score: 0.436

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





**Better solutions.** Fewer disasters.

# Sofer

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