DOMINICA
SAINT PATRICK

NDPBA SUBNATIONAL PROFILE

PDC | GLOBAL

DOMINICA
SAINT PATRICK

Area: 86.7 km2

RISK AND VULNERABILITY
COMPONENT SCORE

MULTI-HAZARD RISK (MHR)
- Very High
Score: 0.499 • Rank: 2/10

RESILIENCE (R)
- Low
Score: 0.486 • Rank: 7/10

MULTI-HAZARD EXPOSURE (MHE)
- High
Score: 0.468 • Rank: 4/10

VULNERABILITY (V)
- High
Score: 0.481 • Rank: 3/10

COPING CAPACITY (CC)
- Low
Score: 0.453 • Rank: 7/10

Total Population (2011)
7,361

Coastal Population Concentration
11.1%

Poverty Rate
42.7%

Households with Reduced Water Availability
30.0%

Coastline Exposure to Local or Global Threats
40.5%

MULTI-HAZARD EXPOSURE (MHE)

RANK: 4 / 10 PARISHES ASSESSED
SCORE: 0.468

MHE
0.468

Raw MHE
0.453

Relative MHE
0.483

ESTIMATED EXPOSURE TO EACH HAZARD:

Coastal Flooding
<1%
👤 37
Buildings Exposed: **<1%**
Critical Infrastructure Exposed: **3%**

Hurricane Winds
100%
👤 7,000
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **100%**

Earthquake
100%
👤 7,000
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **100%**

Landslide
21%
👤 1,470
Buildings Exposed: **20%**
Critical Infrastructure Exposed: **35%**

Extreme Heat
59%
👤 4,140
Buildings Exposed: **63%**
Critical Infrastructure Exposed: **69%**

Sea Level Rise
<1%
👤 27
Buildings Exposed: **<1%**
Critical Infrastructure Exposed: **2%**

Flash Flood
14%
👤 974
Buildings Exposed: **22%**
Critical Infrastructure Exposed: **21%**

Tsunami
<1%
👤 9
Buildings Exposed: **<1%**
Critical Infrastructure Exposed: **<1%**

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

MULTI-HAZARD EXPOSURE (MHE)

RANK: 4 / 10 PARISHES ASSESSED
SCORE: 0.468

ESTIMATED EXPOSURE TO EACH HAZARD *(CONTINUED)*:

Volcano
100%
👤 **7,000**
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **100%**

Wildfire
0%
👤 **0**
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

VULNERABILITY (V)

RANK: 3 / 10 PARISHES ASSESSED
SCORE: 0.481

Vulnerability in Saint Patrick 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: 0.802**   **RANK: 3/10** PARISHES ASSESSED

59.0
Economic
Dependency
Ratio

42.7%
Poverty Rate

Environmental Stress

0 ──────────── 1   **SCORE: 0.234**   **RANK: 8/10** PARISHES ASSESSED

11.1%
Coastal
Population
Concentration

40.5%
Coastline
Exposure
to Local or
Global Threats

19.0%
Tree Cover
Loss

Household Infrastructure Vulnerability

0 ──────────── 1   **SCORE: 0.420**   **RANK: 4/10** PARISHES ASSESSED

10.8%
Housing Built
Prior to 2003

30.0%
Households
with Reduced
Water
Availability

Household Composition and Vulnerable Health

0 ──────────── 1   **SCORE: 0.519**   **RANK: 3/10** PARISHES ASSESSED

5.2%
Prevalence of
Disability (per
100 persons)

0.2%
Institutionalized
Population

13.8%
Population
Age 65 and
Over

23.3%
Population
Under Age 15

Population Pressures

0 ──────────── 1   **SCORE: 0.430**   **RANK: 4/10** PARISHES ASSESSED

1.4%
Average Annual
Population
Change

84.9
Population
Density
(persons per
sq km)

16.8%
Youth Bulge
(population
ages 15-24)

ISLAND CAPACITY (IC)

RANK: 7 / 10 PARISHES ASSESSED
SCORE: 0.463

Saint Patrick 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: 0.393**   **RANK: 4/10** PARISHES ASSESSED

0.00%	**15.9**	**34.2%**	**0.0%**
Croplands	Net Carbon Flux	Protected Terrestrial Area	Protected Coastlines

Emergency Service and Health Care Capacity

0 ▬▬▬▬▬ 1   **SCORE: 0.493**   **RANK: 8/10** PARISHES ASSESSED

0.6	**0.7**	**12.1**	**9.0**	**1.3**
Average Distance to Shelter (km)	Average Distance to Hospital or Clinic (km)	Average Distance to Fire Station (km)	Average Distance to Police Station (km)	Hospitals and Clinics per 1,000 Persons

LOGISTICS CAPACITY (LC)

RANK: 7 / 10 PARISHES ASSESSED
SCORE: 0.442

Saint Patrick 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: 0.281**   **RANK: 9/10** PARISHES ASSESSED

9.0
Average Distance to Seaport (km)

73.4
Distance to External Medium or Large Seaport (km)

0.0
Port Density (ports per 10 km of coastline)

Air Support

0 ▬▬▬▬▬ 1   **SCORE: 0.813**   **RANK: 3/10** PARISHES ASSESSED

77.1
Distance to External C130 Airport (km)

1.8
Average Distance to Airport or Heliport (km)

Transportation Capacity

0 ▬▬▬▬▬ 1   **SCORE: 0.158**   **RANK: 7/10** PARISHES ASSESSED

0.1
Gas Stations per 1,000 Persons

1.5
Road Density (km of roads per sq km)

Warehouse Access

0 ▬▬▬▬▬ 1   **SCORE: 0.518**   **RANK: 7/10** PARISHES ASSESSED

11.5
Average Distance to Warehouse (km)

295.6
Distance to CDEMA Sub-Regional Focal Point (km)

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: 7 / 10 PARISHES ASSESSED
SCORE: 0.453

RESILIENCE (R)

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

RANK: 7 / 10 PARISHES ASSESSED
SCORE: 0.486

KEY FACTORS INFLUENCING RESILIENCE

Saint Patrick's score and ranking are due to High 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.

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.
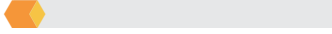
HAZARD-SPECIFIC RISK (HSR)

Coastal Flooding

RANK: 10 / 10 PARISHES ASSESSED
SCORE: 0.073

Earthquake

RANK: 3 / 10 PARISHES ASSESSED
SCORE: 0.603

Extreme Heat

RANK: 1 / 10 PARISHES ASSESSED
SCORE: 0.622

Flash Flood

RANK: 8 / 10 PARISHES ASSESSED
SCORE: 0.314
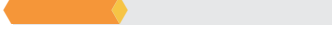
Hurricane Winds

RANK: 3 / 10 PARISHES ASSESSED
SCORE: 0.603

Landslide

RANK: 2 / 10 PARISHES ASSESSED
SCORE: 0.531

Sea Level Rise

RANK: 10 / 10 PARISHES ASSESSED
SCORE: 0.000
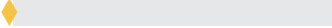
Tsunami

RANK: 10 / 10 PARISHES ASSESSED
SCORE: 0.000
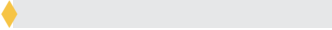
Volcano

RANK: 1 / 10 PARISHES ASSESSED
SCORE: 0.612

Wildfire

RANK: 8 / 10 PARISHES ASSESSED
SCORE: 0.000

MULTI-HAZARD RISK (MHR)

2 / 10
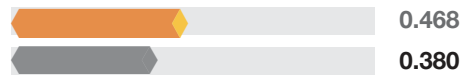RANK AMONG PARISHES
Score: 0.499

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

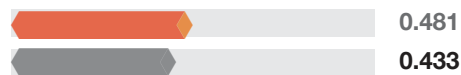**Multi-Hazard Risk component scores compared to overall average country scores:**

PARISH SCORE
COUNTRY SCORE

Multi-Hazard Exposure

0.468

0.380

Vulnerability

0.481

0.433

Coping Capacity

0.453

0.507

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**Better solutions.
Fewer disasters.**

Safer world.

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