



ST. LUCIA

# DENNERY

NDPBA SUBNATIONAL PROFILE

# ST. LUCIA DENNERY

Area: 69.70 km<sup>2</sup>



## RISK AND VULNERABILITY COMPONENT SCORE



### MULTI-HAZARD RISK (MHR)

- Moderate

Score: 0.435 • Rank: 5/10



### RESILIENCE (R)

- Low

Score: 0.401 • Rank: 7/10



### MULTI-HAZARD EXPOSURE (MHE)

- Low

Score: 0.106 • Rank: 8/10



### VULNERABILITY (V)

- Very High

Score: 0.637 • Rank: 2/10



### COPING CAPACITY (CC)

- Low

Score: 0.438 • Rank: 7/10



Population (2010 Census)

**13,010**



Net Primary Enrollment

**61.9%**



Prevalence of Chronic Illness (per 100 persons)

**23.7**



Poverty Rate

**45.0%**



Population with No Internet Access

**64.3%**



# MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 10 DISTRICTS ASSESSED  
SCORE: 0.106



MHE  
0.106

Raw MHE  
0.130

Relative MHE  
0.082

## ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

**2%**

218

Buildings Exposed: **4%**  
Critical Infrastructure Exposed: **19%**



Hurricane Winds

**100%**

9,730

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



Earthquake

**100%**

9,730

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



Landslide

**16%**

1,560

Buildings Exposed: **22%**  
Critical Infrastructure Exposed: **16%**



Extreme Heat

**68%**

6,630

Buildings Exposed: **74%**  
Critical Infrastructure Exposed: **76%**



Sea Level Rise

**2%**

152

Buildings Exposed: **3%**  
Critical Infrastructure Exposed: **18%**



Flash Flood

**0%**

0

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



Tsunami

**12%**

1,180

Buildings Exposed: **19%**  
Critical Infrastructure Exposed: **26%**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 10 DISTRICTS ASSESSED  
SCORE: 0.106

### ESTIMATED EXPOSURE TO EACH HAZARD (CONTINUED):



Volcanic Ashfall

**100%**

**9,730**

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Volcano

**0%**

**0**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



Wildfire

**0%**

**0**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



## VULNERABILITY (V)

**RANK: 2 / 10 DISTRICTS ASSESSED**  
**SCORE: 0.637**

Vulnerability in Dennerly is primarily driven by Clean Water Access Vulnerability and Housing and Transportation Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



### Information Access Vulnerability

0  1 **SCORE: 0.640** **RANK: 5/10 DISTRICTS ASSESSED**

**61.9%**  
Net Primary Enrollment

**48.1%**  
Highest Education Level Primary School

**16.5%**  
Households with Desktop Computer

**78.7%**  
Households with TV

**64.3%**  
Population with No Internet Access



### Economic Constraints

0  1 **SCORE: 0.610** **RANK: 4/10 DISTRICTS ASSESSED**

**54.6**  
Economic Dependency Ratio

**21.0%**  
Unemployment Rate

**45.0%**  
Poverty Rate



### Gender Inequality

0  1 **SCORE: 0.470** **RANK: 7/10 DISTRICTS ASSESSED**

**37.68**  
Adolescent Birth Rate

**0.04**  
Female to Male Literacy

**0.23**  
Female to Male Secondary Enrollment

**0.08**  
Female to Male Labor Ratio



### Housing and Transportation Vulnerability

0  1 **SCORE: 0.692** **RANK: 1/10 DISTRICTS ASSESSED**

**51.1%**  
Housing Built Prior to 2000

**81.1%**  
Households without a Private Vehicle

**39.5%**  
Household Occupancy Squatting



## VULNERABILITY (V)

RANK: 2 / 10 DISTRICTS ASSESSED  
SCORE: 0.637



### Household Composition and Vulnerable Health

0  1 SCORE: 0.441 RANK: 6/10 DISTRICTS ASSESSED

**0.0**

Infant Mortality Rate (per 1,000 live births)

**23.7**

Prevalence of Chronic Illness (per 100 persons)

**20.9**

Prevalence of Disability (per 100 persons)

**9.0%**

Population Age 65 and Over

**25.5%**

Population Under Age 15



### Clean Water Access Vulnerability

0  1 SCORE: 0.968 RANK: 1/10 DISTRICTS ASSESSED

**49%**

Households with Piped Drinking Water

**46%**

Households with Flush Toilet



## ISLAND CAPACITY (IC)

**RANK: 7 / 10 DISTRICTS ASSESSED**  
**SCORE: 0.438**

Dennerly exhibits weaker Island Capacity in the areas of Communications Capacity and Health Care Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Island Capacity score.



### Economic Capacity

0  1 **SCORE: 0.401** **RANK: 8/10 DISTRICTS ASSESSED**

<b>6.3%</b> Persons Receiving Remittances	<b>7.9%</b> Households with Home Insurance	<b>71.9%</b> Labor Force Participation Rate
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### Environmental Capacity

0  1 **SCORE: 0.642** **RANK: 1/10 DISTRICTS ASSESSED**

<b>0.8%</b> Croplands	<b>-28.1</b> Net Carbon Flux	<b>43.8%</b> Protected Terrestrial Area	<b>100.0%</b> Protected Coastlines
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### Infrastructure Capacity

0  1 **SCORE: 0.573** **RANK: 5/10 DISTRICTS ASSESSED**



#### Communications Capacity

0  1 **SCORE: 0.305** **RANK: 8/10 DISTRICTS ASSESSED**

<b>30.8%</b> Households with Fixed Phone Access	<b>76.0%</b> Households with Mobile Phone Access
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#### Emergency Services Capacity

0  1 **SCORE: 0.936** **RANK: 1/10 DISTRICTS ASSESSED**

<b>0.5</b> Average Distance to Shelter (km)	<b>1.0</b> Average Distance to Hospital or Clinic (km)	<b>3.0</b> Average Distance to Fire Station (km)	<b>1.3</b> Average Distance to Police Station (km)
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#### Energy Capacity

0  1 **SCORE: 0.734** **RANK: 6/10 DISTRICTS ASSESSED**

<b>90.1%</b> Households with Electricity	<b>90.4%</b> Households Using Gas for Cooking
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#### Health Care Capacity

0  1 **SCORE: 0.319** **RANK: 7/10 DISTRICTS ASSESSED**

<b>46.7%</b> Persons with Health Insurance Coverage	<b>0.4</b> Hospitals and Clinics per 1,000 Persons
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## LOGISTICS CAPACITY (LC)

**RANK: 1 / 10 DISTRICTS ASSESSED**  
**SCORE: 0.690**

Dennergy 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.



### Maritime Logistics

0  1 **SCORE: 0.248** **RANK: 8/10 DISTRICTS ASSESSED**

<b>3.6</b> Average Distance to Seaport (km)	<b>71.2</b> Distance to External Medium or Large Seaport (km)	<b>0.05</b> Port Density (ports per km of coastline)
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### Air Support

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

<b>69.2</b> Distance to External C130 Airport (km)	<b>13.8</b> Average Distance to Airport or Heliport (km)
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### Transportation Capacity

0  1 **SCORE: 0.394** **RANK: 8/10 DISTRICTS ASSESSED**

<b>0.3</b> Gas Stations per 1,000 Persons	<b>1.8</b> Road Density (km of roads per sq km)
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### Warehouse Access

0  1 **SCORE: 0.666** **RANK: 1/10 DISTRICTS ASSESSED**

<b>12.8</b> Average Distance to Warehouse (km)	<b>161.0</b> 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 St. Lucia was calculated by using a combination of Island Capacity and Logistics Capacity.

**RANK: 7 / 10** DISTRICTS ASSESSED  
**SCORE: 0.438**



## RESILIENCE (R)

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

**RANK: 7 / 10** DISTRICTS ASSESSED  
**SCORE: 0.401**

## KEY FACTORS INFLUENCING RESILIENCE

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

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



### Clean Water Access Vulnerability

Those without easy or adequate access to water distribution and containment systems face significant demands on daily routines that effectively limit their response and recovery capacity and the ability to maintain livelihoods. Increasing access to improved water and sanitation improves health outcomes and frees up resources to decrease further susceptibility to impacts.



### Housing and Transportation Vulnerability

Populations living in older housing, and prior to the enactment of modern building codes, are more susceptible to structural damage and losses as a result of hazard impacts. In addition, those with unmet housing needs or whose household occupancy is squatted have increased susceptibility to negative consequences as a result of hazard exposure. Populations with limited vehicle access are more likely to experience mobility challenges during an evacuation, and have difficulty accessing needed supplies and services before, during and after a hazard event.



### 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.



# HAZARD-SPECIFIC RISK (HSR)



**Coastal Flooding** RANK: 3 / 10 DISTRICTS ASSESSED  
SCORE: 0.408



**Earthquake** RANK: 2 / 10 DISTRICTS ASSESSED  
SCORE: 0.593



**Extreme Heat** RANK: 1 / 10 DISTRICTS ASSESSED  
SCORE: 0.522



**Flash Flood** RANK: 9 / 10 DISTRICTS ASSESSED  
SCORE: 0.000



**Hurricane Winds** RANK: 2 / 10 DISTRICTS ASSESSED  
SCORE: 0.593



**Landslide** RANK: 6 / 10 DISTRICTS ASSESSED  
SCORE: 0.347



**Sea Level Rise** RANK: 4 / 10 DISTRICTS ASSESSED  
SCORE: 0.375



**Tsunami** RANK: 6 / 10 DISTRICTS ASSESSED  
SCORE: 0.388



**Volcanic Ashfall** RANK: 2 / 10 DISTRICTS ASSESSED  
SCORE: 0.593



**Volcano** RANK: 6 / 10 DISTRICTS ASSESSED  
SCORE: 0.000



**Wildfire** RANK: 6 / 10 DISTRICTS ASSESSED  
SCORE: 0.000



## MULTI-HAZARD RISK (MHR)

5 / 10

RANK AMONG DISTRICTS  
Score: 0.435



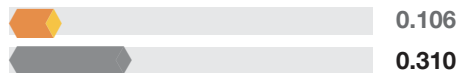
Dennerly's score and ranking are due to Low Multi-Hazard Exposure combined with Very High Vulnerability and Low Coping Capacity scores.

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

DISTRICT SCORE  
COUNTRY SCORE



#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



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