



GUYANA

ESSEQUIBO ISLANDS-WEST DEMERARA

NDPBA SUBNATIONAL PROFILE

GUYANA

ESSEQUIBO ISLANDS- WEST DEMERARA

CAPITAL: VREED EN HOOP

Area: 3,770 km²



RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) -
Very High**
Score: 0.552 • Rank: 2/10



RESILIENCE (R) - High
Score: 0.599 • Rank: 3/10



**MULTI-HAZARD EXPOSURE
(MHE) - Very High**
Score: 0.856 • Rank: 1/10



VULNERABILITY (V) - Low
Score: 0.397 • Rank: 7/10



COPING CAPACITY (CC) - High
Score: 0.596 • Rank: 4/10



Population (2012 Census)
107,785



Infant Mortality Rate (per
1,000 live births)
17



Households in Lowest
Wealth Quintile
10.5%



Households with Improved
Drinking Water Source
98.9%



Adult Illiteracy
12.5%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 1 / 10 REGIONS
SCORE: 0.856



MHE
0.856

Raw MHE
0.713

Relative MHE
0.999

ESTIMATED EXPOSURE TO EACH HAZARD:



Coastal Flooding

32%

35,691
\$305 Million

Critical Infrastructure Exposed:
38%

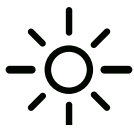


Flash Flooding

92%

103,245
\$577 Million

Critical Infrastructure Exposed:
83%



Drought

87%

97,541

-

Critical Infrastructure Exposed:
-



Riverine Flooding

45%

50,685
\$448 Million

Critical Infrastructure Exposed:
22%



Extreme Heat

100%

112,191
\$661 Million

Critical Infrastructure Exposed:
98%



Wildfire

100%

111,657
\$579 Million

Critical Infrastructure Exposed:
98%



VULNERABILITY (V)

RANK: 7 / 10 REGIONS ASSESSED
SCORE: 0.397

Vulnerability in Essequibo Islands-West Demerara is primarily driven by Vulnerable Groups and Environmental Stress. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Environmental Stress

0  1 **SCORE: 0.434** **RANK: 5/10 REGIONS ASSESSED**

34.2%
Households Affected by Drainage Issues

11.6%
Households Affected by Waste Disposal

2.5%
Households Affected by Soil Erosion

16.0%
Households Affected by Water Contamination

-69.54
Change in Intact Forest Area

186.8
Livestock Density (per sq km)



Socio-Demographic Vulnerability

0  1 **SCORE: 0.388** **RANK: 7/10 REGIONS ASSESSED**



Population Pressures

0  1 **SCORE: 0.334** **RANK: 6/10 REGIONS ASSESSED**

0.46

Average Annual Population Change

-2.04

Net Migration Rate



Human Development Vulnerability

0  1 **SCORE: 0.257** **RANK: 7/10 REGIONS ASSESSED**

Standard of Living

SCORE: 0.141 **RANK: 9/10 REGIONS ASSESSED**

98.9%
Households with Improved Drinking Water Source

93.4%
Households with Improved Sanitation

0.2%
Households with Water Source over 30 minutes from Home

3.1%
Households Cooking with Solid Fuels

22.4%
Households with a Private Vehicle

26.5%
Population with Internet Access

87.5%
Households with Television Access

53.0%
Households with Radio Access

Vulnerable Health Status

SCORE: 0.387 **RANK: 6/10 REGIONS ASSESSED**

17

Infant Mortality Rate

67

Adolescent Birth Rate

8.7%

Children Under Age 5 Wasting

Information Access

Vulnerability

SCORE: 0.450 **RANK: 6/10 REGIONS ASSESSED**

30.4%

Adults with Less than Secondary Education

12.5%

Adult Illiteracy

89.4%

Net Primary School Enrollment

Economic Constraints

SCORE: 0.050 **RANK: 9/10 REGIONS ASSESSED**

48.5

Age Dependency Ratio

10.5%

Unemployment Rate

11.8%

Unemployment Rate



VULNERABILITY (V)

RANK: 7 / 10 REGIONS ASSESSED
SCORE: 0.397



Socio-Demographic Vulnerability (*Continued...*)



Vulnerable Groups

0  1 SCORE: 0.667 RANK: 5/10 REGIONS ASSESSED

3.4%
Disabled
Population

Gender Inequality

SCORE: 0.506 RANK: 7/10 REGIONS ASSESSED

0.38
Female to
Male Labor
Participation

1.08
Parity in
Secondary
Education
Enrollment



COPING CAPACITY (CC)

RANK: 4 / 10 REGIONS ASSESSED
SCORE: 0.596

Essequibo Islands-West Demerara exhibits weaker Coping Capacity in the areas of Governance and Economic Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.



Economic Capacity

0  1 **SCORE: 0.731** **RANK: 3/10 REGIONS ASSESSED**

21.0% Concentration of Wealth	11.0% Population Receiving Remittances	70.9% Households with a Bank Account
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Governance

0  1 **SCORE: 0.117** **RANK: 9/10 REGIONS ASSESSED**

130.7 Crime Rate per 10,000 persons	45.8% Trust in Government	20.1% Community Involvement	13.2% Local Government Participation	27.7% Prevalence of Corruption
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Environmental Capacity

0  1 **SCORE: 0.226** **RANK: 8/10 REGIONS ASSESSED**

0.00% Percent Protected Area	57.2% State Managed Forest Area	-401 Average Annual Net Carbon Flux
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Infrastructure Capacity

0  1 **SCORE: 0.826** **RANK: 2/10 REGIONS ASSESSED**



Emergency Services and Health Care Capacity

0  1 **SCORE: 0.901** **RANK: 2/10 REGIONS ASSESSED**

6.3 Average Distance to Fire Station (km)	7.2 Average Distance to Hospital (km)	3.2 Average Distance to Police Station (km)	93.0% DPT Immunization Coverage
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Transportation Capacity

0  1 **SCORE: 0.720** **RANK: 2/10 REGIONS ASSESSED**

0.29 Road Density (km per sq km)	5.3 Average Distance to Port/Airport (km)
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COPING CAPACITY (CC)

RANK: 4 / 10 REGIONS ASSESSED
SCORE: 0.596



Infrastructure Capacity (Continued...)



Communications Capacity

0  1 SCORE: 0.824 RANK: 4/10 REGIONS ASSESSED

74.8%
Households
with Mobile
Phones

36.4%
Households
with Fixed
Phones

100%
Cell Tower
Coverage Area



Energy Capacity

0  1 SCORE: 0.860 RANK: 1/10 REGIONS ASSESSED

92.8%
Households
with Electricity

79.6%
Households
Using Gas as
Main Cooking
Fuel

2.8
Fuel Stations
per 10,000
Persons



RESILIENCE (R)

RANK: 3 / 10 REGIONS ASSESSED
SCORE: 0.599

Essequibo Islands-West Demerara's score and ranking are due to Low Vulnerability combined with High Coping Capacity scores.

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



Vulnerable
Groups



Environmental
Stress



Governance



Economic Capacity

KEY FACTORS INFLUENCING RESILIENCE



Vulnerable Groups

Marginalized populations are less likely to have their needs met under pre-disaster conditions, and therefore become even more susceptible to harm during times of disaster. Increase gender-based inclusion and involvement of persons with disabilities and their caregivers in all phases of disaster management, ensuring implementation at subnational and local levels. Plans and strategies must consider the special needs and accommodations of disabled populations during response and recovery, including evacuation and sheltering. Courses of action must consider the roles of women in society and support changes to policies and programs to promote gender-equal access.



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.



Governance

Instability of institutional structures can make a region more susceptible to the negative effects of a disaster event. Increasing stability increases the likelihood that emergencies can be better managed at the local level and supports a quick return to normal functions.



Economic Capacity

A strong economic foundation provides an indication of a region's ability to absorb economic losses and quickly mobilize financial assets for preparedness, response and recovery activities. Limited economic capacity correlates to disproportionate disaster impacts.



HAZARD-SPECIFIC RISK (HSR)



Coastal Flooding

RANK: 1 / 10 REGIONS ASSESSED
SCORE: 0.372



Drought

RANK: 3 / 10 REGIONS ASSESSED
SCORE: 0.375



Extreme Heat

RANK: 6 / 10 REGIONS ASSESSED
SCORE: 0.308



Flash Flooding

RANK: 4 / 10 REGIONS ASSESSED
SCORE: 0.285



Riverine Flooding

RANK: 5 / 10 REGIONS ASSESSED
SCORE: 0.222



Wildfire

RANK: 5 / 10 REGIONS ASSESSED
SCORE: 0.305



MULTI-HAZARD RISK (MHR)

2 / 10

RANK WITHIN REGIONS
Score: 0.552



Essequibo Islands-West Demerara's score and ranking are due to Very High Multi-hazard Exposure combined with Low Vulnerability and High Coping Capacity scores.

Multi-hazard risk component scores compared to overall average country scores:

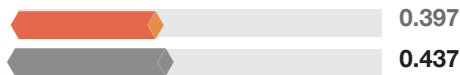
REGIONS SCORE
COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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