THE BAHAMAS

ELEUTHERA

NDPBA ISLAND PROFILE

PDC | GLOBAL

THE BAHAMAS
ELEUTHERA

CAPITAL: GOVERNOR'S HARBOUR

Area: 198 sq. mi (512.8 sq. km)

RISK AND VULNERABILITY
COMPONENT SCORE

MULTI-HAZARD RISK (MHR) - High
Score: 0.425 • Rank: 6/17

RESILIENCE (R) - Moderate
Score: 0.489 • Rank: 9/17

MULTI-HAZARD EXPOSURE (MHE) - High
Score: 0.502 • Rank: 5/17

VULNERABILITY (V) - High
Score: 0.472 • Rank: 5/17

COPING CAPACITY (CC) - Moderate
Score: 0.650 • Rank: 9/17

Population (2010 Census)
8,202

Population in Poverty
49.9%

Average Annual Foreign Arrivals Per Capita
42.1

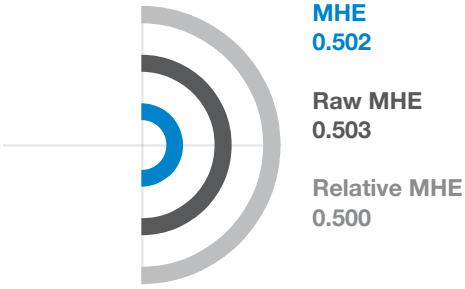
Households with Piped Water
92.2%

Prevalence of Crowded Housing
20.0%

*For more information on data and components please visit: https://bit.ly/2LqVoUO

MULTI-HAZARD EXPOSURE (MHE)

RANK: 5 / 17 ISLANDS
SCORE: 0.502



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:

Note: Population values from PDC's All-hazard Impact Model (AIM) leverage 2020 estimates for The Bahamas. Values may exceed 2010 Census population.

Tropical Cyclone Winds
100.0%
7,118
$385.7 Million

Storm Surge
28.6%
2,034
$165.3 Million

Flooding
67.9%
4,833
$216.6 Million

Wildfire
0.0%
0
0

Landslide
10.4%
741
$17.1 Million

Sea Level Rise
0.1%
< 25
$110 Thousand

VULNERABILITY (V)

RANK: 5 / 17 ISLANDS ASSESSED
SCORE: 0.472

Vulnerability in Eleuthera is primarily driven by Environmental Stress and Economic Constraints. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.

Environmental Stress

0 — 1 **SCORE: 0.688** **RANK: 5/17** ISLANDS ASSESSED

96.1% Coral reef exposed to local threats

95.8% Coral reef exposed to thermal stress

10.7% Tree cover loss

0.76 per mi. (0.47 per km) Historical hurricane hits per length of coastline

Household Composition Vulnerability

0 — 1 **SCORE: 0.313** **RANK: 8/17** ISLANDS ASSESSED

3.0% Disability

10.8% Elderly population (65+)

Clean Water Access Vulnerability

0 — 1 **SCORE: 0.438** **RANK: 12/17** ISLANDS ASSESSED

92.2% Households with piped water

96.4% Households with flush toilets

3.5% Households with shared toilet facilities

Housing and Transportation Vulnerability

0 — 1 **SCORE: 0.458** **RANK: 7/17** ISLANDS ASSESSED

20.0% Crowded housing

29.4% Population without private vehicle

40.4% Housing built before 1980

Economic Constraints

0 — 1 **SCORE: 0.581** **RANK: 6/17** ISLANDS ASSESSED

54.6 Economic dependency ratio

$138 Government benefits received (Bahamian Dollars)

58.5% Non-wage earning population

49.9% Poverty rate

Gender Inequality

0 — 1 **SCORE: 0.429** **RANK: 9/17** ISLANDS ASSESSED

0.53
Ratio female to male income

1.06
Ratio female to male avg. years of school

18
Adolescent birth rate (per 1,000)

Population Pressures

0 — 1 **SCORE: 0.396** **RANK: 8/17** ISLANDS ASSESSED

2.5%
Average population change (2000 - 2010)

42.1
Average annual foreign arrivals per capita

1,743.2
Average annual foreign arrivals per sq. mile

3.4
Migration per 100 persons

ISLAND CAPACITY (IC)

RANK: 11 / 17 ISLANDS ASSESSED
SCORE: 0.420

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

Economic Capacity

0 — 1 **SCORE: 0.199** **RANK: 13/17** ISLANDS ASSESSED

0.3%
Households receiving remittances

$10,251
Median income, Bahamian dollars

Environmental Capacity

0 — 1 **SCORE: 0.199** **RANK: 11/17** ISLANDS ASSESSED

0.0%
Protected areas

20%
Coastline protected by natural habitat

0.12 oz. per sq. ft (36.87 g per sq. m)
Standing fish stock

Infrastructure Capacity

0 — 1 **SCORE: 0.642** **RANK: 5/17** ISLANDS ASSESSED

Health Care Capacity

SCORE: 0.419 **RANK: 7/17** ISLANDS ASSESSED

4.9
Physicians per 10,000

34.1
Nurses & midwives per 10,000

15.9
Clinics per 10,000

96.1%
DTP3 Vaccine coverage rate

Transportation Capacity

SCORE: 0.612 **RANK: 5/17** ISLANDS ASSESSED

2.67 mi per sq. mi (1.66 km per sq. km)
Road density

Communications Capacity

SCORE: 0.811 **RANK: 5/17** ISLANDS ASSESSED

52.7%
Internet access

99.8%
Mobile coverage

Emergency Services Capacity

SCORE: 0.469 **RANK: 13/17** ISLANDS ASSESSED

11.76 mi (18.92 km)
Average distance to police station

2.04 mi (3.29 km)
Average distance to shelter

29.3
Shelter capacity per 100 persons

Energy Capacity

SCORE: 0.898 **RANK: 7/17** ISLANDS ASSESSED

96.8%
Households with electricity

85.2%
Households with liquid propane gas

LOGISTICS CAPACITY (LC)

RANK: 6 / 18 ISLANDS ASSESSED
SCORE: 0.874

Logistics Capacity describes the ability of the island to ensure efficient storage, movement, and delivery of resources key for effective humanitarian assistance and disaster relief operations. Logistics Capacity is driven by distances to a major airport, major seaport, and disaster warehouse.

49.26 mi (79.26 km)
Distance to port

0 mi (0 km)
Distance to airport

49.26 mi (79.26 km)
Distance to warehouse

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 in The Bahamas was calculated by using a combination of Island Capacity and Logistics Capacity.

RANK: 9 / 17 ISLANDS ASSESSED
SCORE: 0.650

RESILIENCE (R)

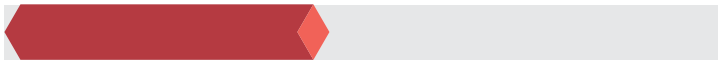
Resilience in The Bahamas was calculated by using a combination of Vulnerability, and Coping Capacity (including both Island Capacity and Logistics Capacity).

RANK: 9 / 17 ISLANDS ASSESSED
SCORE: 0.489

HAZARD-SPECIFIC RISK (HSR)

Tropical Cyclone Winds	**RANK:** 6 / 17 ISLANDS ASSESSED	**SCORE:** 0.459
Storm Surge	**RANK:** 9 / 17 ISLANDS ASSESSED	**SCORE:** 0.394
Flooding	**RANK:** 3 / 17 ISLANDS ASSESSED	**SCORE:** 0.454
Wildfire	**RANK:** 5 / 17 ISLANDS ASSESSED	**SCORE:** 0.272
Landslide	**RANK:** 4 / 17 ISLANDS ASSESSED	**SCORE:** 0.422
Sea Level Rise	**RANK:** 9 / 17 ISLANDS ASSESSED	**SCORE:** 0.331

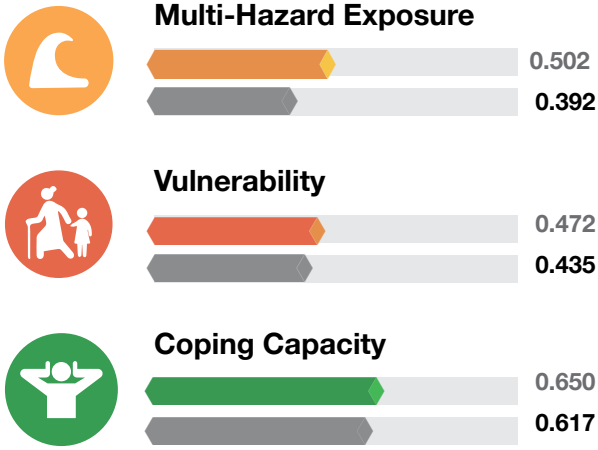
MULTI-HAZARD RISK (MHR)



6 / 17
RANK WITHIN ISLANDS
Score: 0.425

Eleuthera's score and ranking are due to High Multi-hazard Exposure combined with High Vulnerability and Moderate Coping Capacity scores.

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



ELEUTHERA RECOMMENDATIONS

1

Environmental Stress

Environmental stressors such as the depletion, degradation, or contamination of natural resources can exacerbate natural hazards and negatively impact the health, safety, and economic security of Eleuthera's population.

Ranking 5th highest for overall Vulnerability in The Bahamas, Eleuthera also ranks 5th for Environmental Stress, with 96% of its coral reef exposed to local threats, over 95% of its coral reef exposed to thermal stress, and a loss of nearly 11% of its tree cover over the last 20 years.

Land and reef management is essential to monitor ecological stress while balancing economic use. Implement programs to monitor reef stress and potentially increase environmental protection zones around reefs. Eleuthera's exposure to flood, landslide and hurricane wind hazards have the potential to exacerbate already fragile ecosystems.

Monitor island development to limit loss of natural vegetation and implement programs to decrease the risks of fire and other human stressors to the environment.

ELEUTHERA RECOMMENDATIONS

2

Economic Constraints

Economic constraints have individual, household, community, and district-wide influence. Limitations on available financial resources reduce opportunities to invest in mitigation and preparedness measures and limit Eleuthera's ability to facilitate short- and long-term recovery.

Eleuthera ranks 6th for overall Economic Constraints in The Bahamas with 58% of the population not earning a wage and 50% of the population living in poverty. Economic dependency increases reliance on government programs and directly relates to increased need in times of disaster.

Assess disaster response and recovery plans to ensure that economically vulnerable populations are included for long- and short-term recovery.

Expand programs supporting school to work pathways and those that provide training and skill building to increase economic and career opportunities.

ELEUTHERA RECOMMENDATIONS

3

Health Care Capacity

Robust access to skilled caregivers and the dedicated facilities for the treatment of injury and disease during non-disaster times greatly enhances the ability of the served population to absorb and manage post-disaster impacts to health, and increases the likelihood that disaster associated health and medical impacts may be addressed.

There are fewer than five physicians and 35 nurses and midwives per 10,000 people on Eleuthera. Access to skilled caregivers and dedicated facilities for the treatment of injury and disease during non-disaster times greatly enhances the ability of the served population to absorb and manage post-disaster impacts to health, and increases the likelihood that disaster associated health and medical impacts may be addressed.

Develop programs to increase clinics and physicians and other healthcare personnel on the island. If a permanent increase is not sustainable, develop a country-wide program to support underserved populations with visiting physicians to provide preventative and acute care at designated times, decreasing the need for more extensive and specialized treatment and hospitalization.

ELEUTHERA RECOMMENDATIONS

4

Emergency Service Capacity

Societies establish capacities to manage emergencies that scale from day-to-day events up to catastrophes that impact all of society. Establishing and maintaining a broad range of systems and resources to support emergency services in Eleuthera will increase the capacity for disaster management and response.

Eleuthera has the 5th lowest Emergency Service Capacity, driven by the 4th greatest distance to police stations and a shelter capacity that is below the national average. Low emergency service capacity increases risk to members of society with longer police response times and low shelter capacities.

Evaluate the need for additional police stations or sub-stations and/or increased police presence. Additionally, investigate additional shelter options to increase capacity and decrease distances to shelters. Ensure suitability of shelters and implement plans to provide adequate supplies in times of emergency, namely food and water, bedding, and medicine.

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