



**THE BAHAMAS**  
**ANDROS**

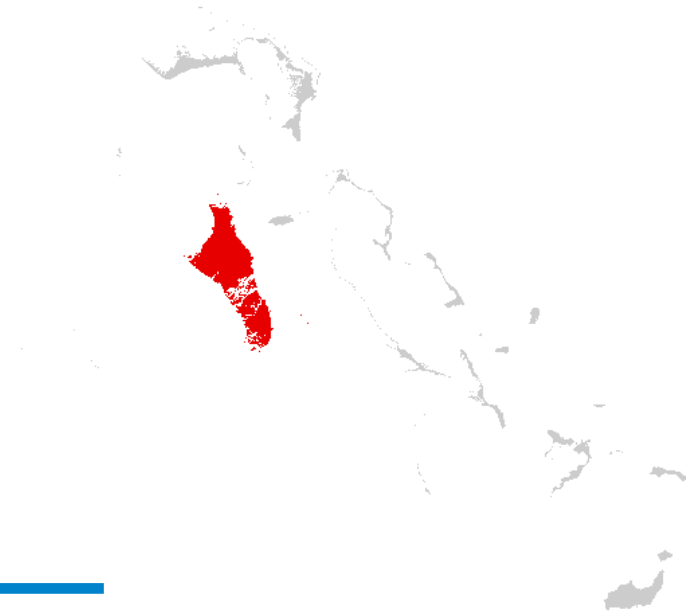
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**NDPBA ISLAND PROFILE**

# THE BAHAMAS ANDROS

## CAPITAL: ANDROS TOWN

Area: 2300 sq. mi (5,957 sq. km)



## RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) - High**  
Score: 0.431 • Rank: 4/17



**RESILIENCE (R) - Moderate**  
Score: 0.496 • Rank: 8/17



**MULTI-HAZARD EXPOSURE (MHE) - Very High**  
Score: 0.564 • Rank: 3/17



**VULNERABILITY (V) - Moderate**  
Score: 0.463 • Rank: 8/17



**COPING CAPACITY (CC) - Moderate**  
Score: 0.658 • Rank: 8/17



Population (2010 Census)  
**7,490**



Population in Poverty  
**60.6%**



Average Annual Foreign Arrivals Per Capita  
**1.4**



Households with Piped Water  
**90.4%**



Prevalence of Crowded Housing  
**22.6%**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 3 / 17 ISLANDS

SCORE: 0.564



MHE  
0.564

Raw MHE  
0.554

Relative MHE  
0.574

### 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%**

7,504

\$511 Million



Storm Surge

**41.1%**

3,081

\$323.5 Million



Flooding

**52.1%**

3,908

\$360 Million



Wildfire

**30.4%**

2,278

\$184.5 Million



Landslide

**1.1%**

80

\$5.1 Million



Sea Level Rise

**0.0%**

0

\$100 Thousand



## VULNERABILITY (V)

**RANK: 8 / 17 ISLANDS ASSESSED**  
**SCORE: 0.463**

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



### Environmental Stress

0  1 **SCORE: 0.529** **RANK: 9/17 ISLANDS ASSESSED**

<b>67.3%</b> Coral reef exposed to local threats	<b>83.9%</b> Coral reef exposed to thermal stress	<b>6.7%</b> Tree cover loss	<b>0.53 per mi. (0.33 per km)</b> Historical hurricane hits per length of coastline
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### Household Composition Vulnerability

0  1 **SCORE: 0.387** **RANK: 7/17 ISLANDS ASSESSED**

<b>4.4%</b> Disability	<b>9.9%</b> Elderly population (65+)
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### Clean Water Access Vulnerability

0  1 **SCORE: 0.460** **RANK: 10/17 ISLANDS ASSESSED**

<b>90.4%</b> Households with piped water	<b>96.0%</b> Households with flush toilets	<b>3.0%</b> Households with shared toilet facilities
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### Housing and Transportation Vulnerability

0  1 **SCORE: 0.522** **RANK: 4/17 ISLANDS ASSESSED**

<b>22.6%</b> Crowded housing	<b>34.9%</b> Population without private vehicle	<b>37.8%</b> Housing built before 1980
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### Economic Constraints

0  1 **SCORE: 0.879** **RANK: 1/17 ISLANDS ASSESSED**

<b>68.0</b> Economic dependency ratio	<b>\$186</b> Government benefits received (Bahamian Dollars)	<b>65.6%</b> Non-wage earning population	<b>60.6%</b> Poverty rate
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### Gender Inequality

0  1 **SCORE: 0.281** **RANK: 13/17 ISLANDS ASSESSED**

**0.72**

Ratio female to male income

**1.03**

Ratio female to male avg. years of school

**20**

Adolescent birth rate (per 1,000)



### Population Pressures

0  1 **SCORE: 0.185** **RANK: 13/17 ISLANDS ASSESSED**

**-2.6%**

Average population change (2000 - 2010)

**1.4**

Average annual foreign arrivals per capita

**4.6**

Average annual foreign arrivals per sq. mile

**4.7**

Migration per 100 persons



# ISLAND CAPACITY (IC)

**RANK: 12 / 17 ISLANDS ASSESSED**  
**SCORE: 0.411**

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



## Economic Capacity

0 1 **SCORE: 0.087** **RANK: 15/17 ISLANDS ASSESSED**

**0.2%** **\$8,400**  
 Households receiving remittances Median income, Bahamian dollars



## Environmental Capacity

0 1 **SCORE: 0.908** **RANK: 1/17 ISLANDS ASSESSED**

**55.0%** **49%** **0.15 oz. per sq. ft (45 g per sq. m)**  
 Protected areas Coastline protected by natural habitat Standing fish stock



## Infrastructure Capacity

0 1 **SCORE: 0.405** **RANK: 17/17 ISLANDS ASSESSED**



## Health Care Capacity

**SCORE: 0.377** **RANK: 8/17 ISLANDS ASSESSED**

**4.0** **21.4** **13.4** **112.5%**  
 Physicians per 10,000 Nurses & midwives per 10,000 Clinics per 10,000 DTP3 Vaccine coverage rate



## Transportation Capacity

**SCORE: 0.000** **RANK: 17/17 ISLANDS ASSESSED**

**0.26 mi per sq. mi (0.16 km per sq. km)**  
 Road density



## Communications Capacity

**SCORE: 0.325** **RANK: 17/17 ISLANDS ASSESSED**

**38.9%** **35.8%**  
 Internet access Mobile coverage



## Emergency Services Capacity

**SCORE: 0.519** **RANK: 9/17 ISLANDS ASSESSED**

**7.06 mi (11.36 km)** **2.26 mi (3.64 km)** **14.9**  
 Average distance to police station Average distance to shelter Shelter capacity per 100 persons



## Energy Capacity

**SCORE: 0.805** **RANK: 11/17 ISLANDS ASSESSED**

**92.0%** **84.1%**  
 Households with electricity Households with liquid propane gas



## LOGISTICS CAPACITY (LC)

**RANK: 5 / 18 ISLANDS ASSESSED**  
**SCORE: 0.900**

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.



**39.32 mi (63.27 km)**

Distance to port



**0 mi (0 km)**

Distance to airport



**39.32 mi (63.27 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: 8 / 17 ISLANDS ASSESSED**  
**SCORE: 0.658**



## 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: 8 / 17 ISLANDS ASSESSED**  
**SCORE: 0.496**



## HAZARD-SPECIFIC RISK (HSR)



**Tropical Cyclone Winds** RANK: 7 / 17 ISLANDS ASSESSED  
 SCORE: 0.454



**Storm Surge** RANK: 8 / 17 ISLANDS ASSESSED  
 SCORE: 0.408



**Flooding** RANK: 4 / 17 ISLANDS ASSESSED  
 SCORE: 0.443



**Wildfire** RANK: 1 / 17 ISLANDS ASSESSED  
 SCORE: 0.460



**Landslide** RANK: 6 / 17 ISLANDS ASSESSED  
 SCORE: 0.357



**Sea Level Rise** RANK: 11 / 17 ISLANDS ASSESSED  
 SCORE: 0.306





## MULTI-HAZARD RISK (MHR)

**4 / 17**

RANK WITHIN ISLANDS  
Score: 0.431



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

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

█ █ █ ANDROS SCORE  
█ COUNTRY SCORE



#### Multi-Hazard Exposure



#### Vulnerability



#### Coping Capacity



## ANDROS RECOMMENDATIONS

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### **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 Andros' ability to facilitate short- and long-term recovery.

Andros scores the highest in overall Economic Constraints in The Bahamas. Contributing to this score is the highest poverty rate (60.6%) and the highest percentage of non-wage earners in the country. Just over 65% of the population does not earn a wage or have business income.

Assess disaster preparedness, response, and recovery plans to ensure economically vulnerable populations are included. Create public policies guaranteeing equal opportunity and fair wages for all.

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## ANDROS RECOMMENDATIONS

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# 2

### 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 Andros' population.

Andros ranks 8th in thermal reef stress, 10th in reef exposure to local threats, and 9th overall for Environmental Stress. High poverty rates, income inequality, food insecurity, and other population pressures can be exacerbated by environmental stressors brought about by human influences or natural processes.

Environmental protection is vital to ensuring sustainable development within the islands, and land and reef management is essential to monitor ecological stress while balancing economic use. Recommend instituting monitoring and protection programs for local reefs, to include regulations limiting coastal development, increased oversight of the fishing industry, pollution control programs, and additional policies designed to minimize the effects of climate change. Increase public awareness on reef preservation and climate change.

Given Andros' 3rd highest Multi-Hazard Exposure ranking and significant exposure to wildfire, hurricane wind, and flood hazards, provide educational training to both private and public entities to promote hazard awareness and sustainable development to monitor, manage, and reduce environmental stress.

## ANDROS RECOMMENDATIONS

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# 3

### Transportation Capacity

Denser and more diverse transportation networks provide more options for bringing outside resources into an impacted area and increase the ability of response stakeholders to access island populations. Improved transportation capacity supports all aspects of Andros' ability to distribute resources before, during, and after a disaster.

Andros ranks last in Transportation Capacity, with the lowest road density in The Bahamas. Poor transportation capacity within a region limits the economic opportunity and mobility of society and can prevent individuals from attending higher education or finding gainful employment. Transportation capacity constraints also hamper emergency response activities and decrease public access to vital resources.

Identify areas with limited transportation networks to identify the most beneficial areas where increasing transportation capacity will have the greatest impact. Identify emergency routes and vital transportation routes that provide critical access to services for the population and ensure services have secondary and tertiary means of access. Ensure new transportation routes are developed within sustainable development guidelines and include hazard mitigation strategies to reduce future hazard impacts.

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## ANDROS RECOMMENDATIONS

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# 4

### Communications Capacity

The density, diversity, resilience, and quality of communications infrastructure influence how island- and local-level populations able to facilitate effective and coordinated communication.

Andros ranks the lowest among islands in The Bahamas for Communications Capacity with approximately 39% of the population having internet access and only 36% of land area with mobile phone coverage. Unreliable communications and lack of access to communications infrastructure increases information access vulnerability and hinders the ability of government agencies to share critical information during disasters. Lack of adequate communication can also contribute to limited access to public health, safety, and nutrition.

Increase communications infrastructure to ensure coverage, accessibility, and reliability of communications during disasters. Ensure that all new or improvements to existing infrastructure incorporate risk reduction measures, with special consideration for wildfire, hurricane wind, and flood hazards. Encourage telecommunication infrastructure development at a sustainable pace. Create communications plans to share critical information with the public during disasters with primary, alternate, contingency, and emergency plans for communication. Ensure that the public is aware of how and where to get critical information during and after a disaster.

**Better solutions.  
Fewer disasters.**

# Safer world.

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