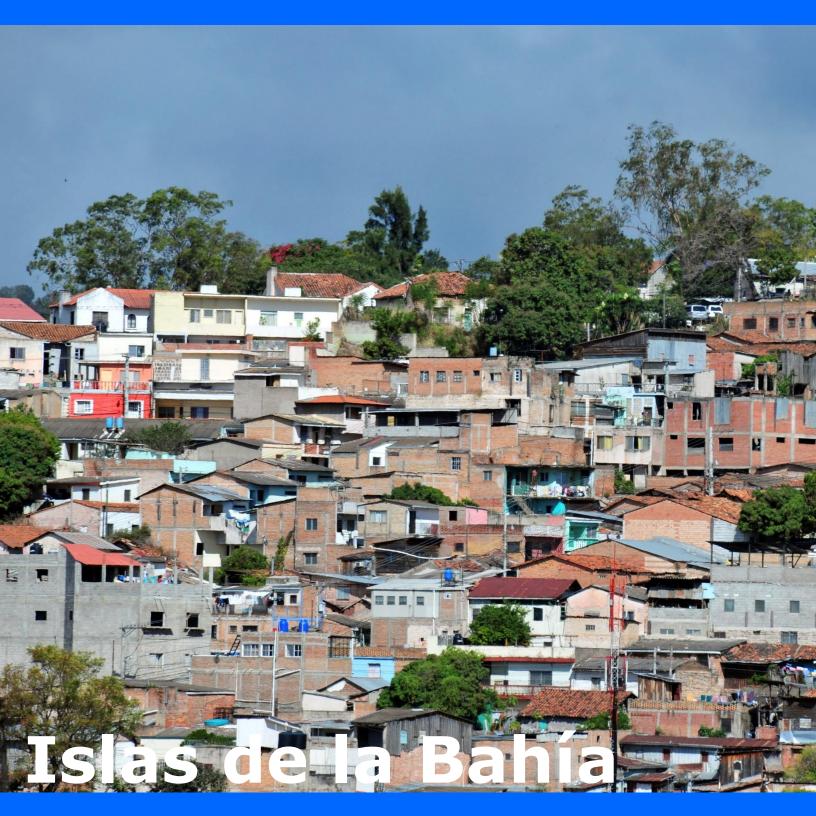
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Honduras National Disaster Preparedness Baseline Assessment Department Profile

Department: Islas de la Bahía



Department Capital: Roatán

Area: 236 km²

Islas de la Bahía is a group of bay islands off the Caribbean shore of Honduras. The bay islands serve as the anchor of Honduras' growing tourism industry. Tourism and fishing represent half of the gross island product. With dynamic expansion of the tourist and service industry, Islas de la Bahía exhibits ongoing rapid population growth.



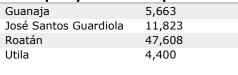








Municipality	Population			
Guanaja	5,663			
José Santos Guardiola	11,823			
Roatán	47,608			
Utila	4,400			







Multi-Hazard Risk Rank: Very Low (17 of 18)





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RVA Component Scores

Table 1. Department scores and ranks (compared across departments) for each index.

Multi-H	lazard Risk	Risk Lack of Resilience Multi-Hazard Exposure			Vuln	erability	Copin	g Capacity	
Ve	ry Low	Ve	ery Low Moderate		Very Low		Very High		
Score	Rank (of 18)	Score	Rank (of 18)	Score	Rank (of 18)	Score	Rank (of 18)	Score	Rank (of 18)
0.333	17	0.277	18	0.444	10	0.280	17	0.726	1

Multi-Hazard Exposure (MHE)

Multi-Hazard Exposure¹ Rank: 10 of 18 Departments (Score: 0.444)

Table 2. Estimated ambient population² exposed to each hazard (2014).



100%

Cyclone 44,647 People

While all people in the department are subject to tropical cyclones, landfall is relatively infrequent and damage is limited by reefs and shallow waters.



68%

Seismic

30,144 People



0%

0 People



24%

Inland Flood

10,928 People



4%

Landslide

1,786 People

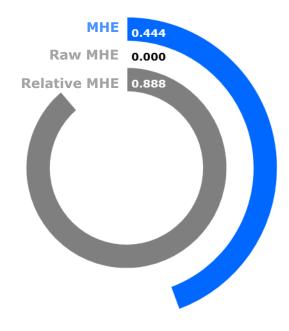


95%

42,349 People

Case Study: Hurricanes and Roatán

Despite its location in the Caribbean off the northern coast of Honduras, Roatán is not generally considered to have high tropical cyclone occurrence. From 1851-2010, there have been only 35 tropical cyclones to impact the island, including one Category 4 hurricane and one Category 5 hurricane (Mitch). Because the island is surrounded by reefs and shallow water, damage is usually limited when impact does occur.



 $^{^{1}}$ **Multi-Hazard Exposure**: Average exposure of the population to hazards.

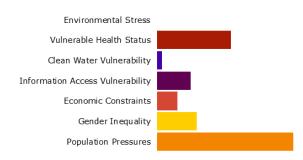
² Ambient Population: 24-hour average estimate of the population in each department. Ambient population typically differs from census population.

NDPBA Honduras Report: Department Profile

Vulnerability (V)

Vulnerability³ **Rank: 17 of 18 Departments (Score: 0.280)** Despite having low relatively vulnerability overall, Islas de la Bahía ranks 2nd in Population Pressures. The bar chart on the right indicates the socioeconomic themes contributing to the department's overall score.

Table 3. Component scores for each vulnerability subcomponent





Environmental Stress

0%Forest Loss
Due to Pine
Beetle Plague

0%Water
Shortage
Area



Vulnerable Health Status

12.6Infant
Mortality
Rate

148.7 Maternal Mortality Ratio **77.6**Life
Expectancy
(years)

3.7%
Acute
Malnutrition
Rate

2.6%Population Disabled

0.646Communicable Disease Sub-Index⁴

Non-Communicable Disease Sub-Index ⁴

0.683



Clean Water Vulnerability

94.3%Households
Access to
Piped Water

89.9%Households
Connected to
Sewer or
Septic
System



Information Access Vulnerability

4.2%Adult
Illiteracy

7.0Average Years of Schooling

97.0%Enrollment in Basic Education

82.2%Households without Internet

19.3%Households without TV

43.0%Households
without Radio



Economic Constraints

0.64Economic
Dependency
Ratio

40.0%Population in Poverty

0.20GINI
Coefficient



Gender Inequality

0.77Ratio of
Female to
Male Land
Ownership
Rate

1.15
Ratio of
Female to
Male Home
Ownership
Rate

0.48Ratio
Female to
Male
Economic
Activity

1.02
Ratio of
Female to
Male
Secondary
Enrollment



Population Pressures

5.4%Average
Annual
Population
Change

10.6% Average Annual Urban Population Change

³ **Vulnerability**: The socioeconomic conditions that are associated with the susceptibility to disruptions in a country's normal functions.

⁴ Sub-indices: A combination of scaled indicators to represent a vulnerability theme (e.g. Communicable Disease). Values range from 0 (low) to 1 (high).

Coping Capacity (CC)

Coping Capacity⁵ Rank: 1 of 18 Departments (Score: 0.726) Despite having the highest overall coping capacity in Honduras, Islas de la Bahía exhibits notable weakness in the area of Governance. The bar chart on the right indicates the socioeconomic themes contributing to the department's overall Coping Capacity score.

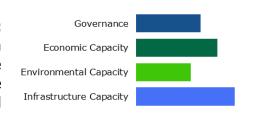


Table 4. Component scores for each coping capacity subcomponent

	Governand	ce	13.7 Homicides per 100k Persons	687.1 Sexual Violence and Assault per 100k Persons	67.5% Households with Public Garbage Collection	55.2% Voter Participation (2013 Election)		
\$\$	Economic Capacity		38.7% Economic Activity Rate	96.7% Employment Rate	31.4% Population in Highest Wealth Quintile			
	Environme Capacity	ental	24.8% Natural Protected Area					
(T)	Infrastruc Capacity	cture						
		Healtl Capac	h Care Sity	6.7 Hospital Beds per 10,000 Persons	6.3 Physicians per 10,000 Persons	16.5 Nurses per 10,000 Persons	29.1 km Average Distance to Nearest Hospital	80.4% Children Completed Immunization Schedule
		Comm Capac	nunications iity	22.9% Households with Access to Fixed Phone Line	79.1% Households with Access to Mobile Phone			

⁵ Coping Capacity: The systems, means, and abilities of a country to absorb and respond to events that could potentially disrupt normal function.

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Lack of Resilience (LR)

Lack of Resilience⁶ Rank: 18 of 18 Departments (Score: 0.277)

Islas de la Bahía's Lack of Resilience score and ranking are due to very low Vulnerability combined with very high Coping Capacity scores.

Table 5. The three thematic areas with the weakest relative scores.



Population Pressures



Governance



Vulnerable Health Status

Multi-Hazard Risk (MHR)

Multi-Hazard Risk⁷ Rank: 17 of 18 Departments (Score: 0.333)

Islas de la Bahía's Multi-Hazard Risk score and ranking are due to moderate Multi-Hazard Exposure combined with very low Vulnerability and very high Coping Capacity scores.

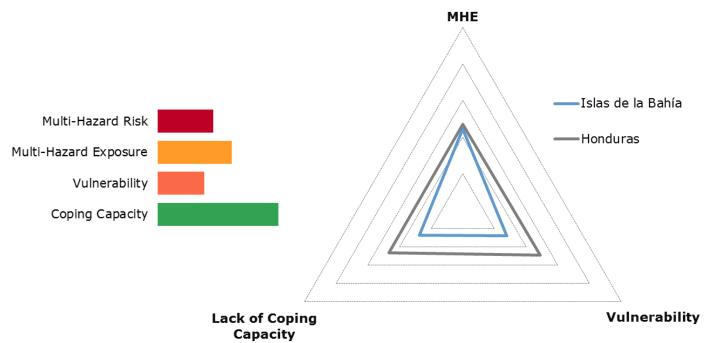


Figure 55. Department multi-hazard risk component scores compared to overall average country scores

⁶ Lack of Resilience: The susceptibility to impact from the short-term inability to absorb, respond to, and recover from disruptions to a country's normal function. This index provides a hazard-independent look at current socio-economic conditions.

Multi-Hazard Risk: The likelihood of losses or disruptions to a country's normal function due to interaction between multi-hazard exposure, socioeconomic vulnerability, and coping capacity.

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Successes



Highest transportation capacity

Ranked 1 of 18 departments, well-developed transportation networks facilitate the movement of goods and services, decreasing wait times for response and relief supplies.



Lowest environmental stress

Ranked 17th (tied with Gracias a Dios), low environmental stress indicates that natural resources and agriculture will be more resilient to the effects of a disaster and may recover faster.



Low economic constraints

Ranked 17 of 18 departments, low economic constraints indicate that Islas de la Bahía may be able to invest in additional mitigation and preparedness measures at the local and community level.

Recommendations



Monitor and manage population influx

Invest in a program to manage population influx into the region. Islas de la Bahía's vast (protected) resources have caused an increase in corporate and individual farming and logging operations. Population-control measures must be enacted to control the influx in personnel as the infrastructure is not designed to handle it.



Increase government services

Investments in public services such as garbage collection, fire, and police will increase coping capacity and the department's ability to handle crises.



Better solutions. Fewer disasters. Safer world.

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