Better solutions. Fewer disasters. Safer world.



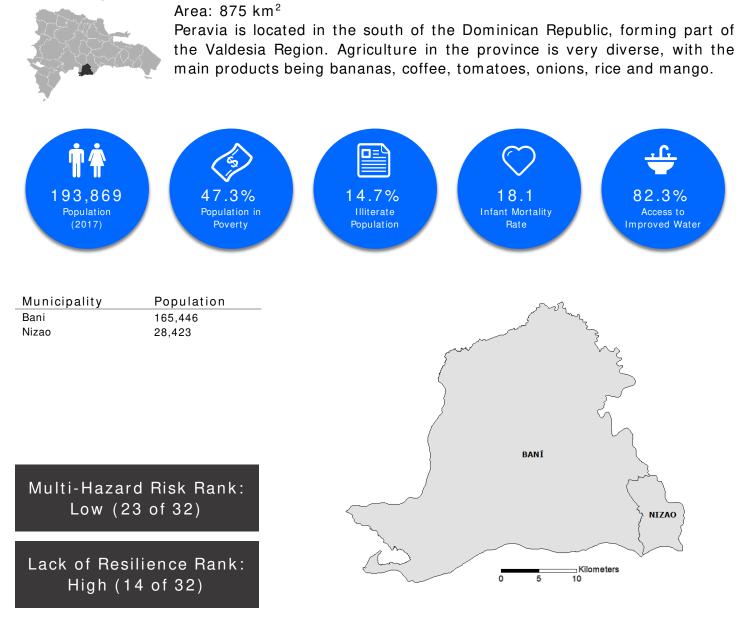


Dominican Republic National Disaster Preparedness Baseline Assessment Province Profile

Findings: Risk and Vulnerability Assessment (RVA)

Province: Peravia

Province Capital: Baní



RVA Component Scores

Table 1. Province Scores and Ranks (compared across Provinces) for each Index

Multi-Hazard Risk		Lack of Resilience		Multi-Hazard Exposure		Vulnerability		Coping Capacity	
Low		High		Low		High		Medium	
Score	Rank (of 32)	Score	Rank (of 32)	Score	Rank (of 32)	Score	Rank (of 32)	Score	Rank (of 32)
0.490	23	0.506	14	0.459	21	0.473	14	0.462	18

Multi-Hazard Exposure (MHE)

Multi-Hazard Exposure¹ Rank: 21 of 32 Provinces (Score: 0.459)

Table 2. Estimated ambient population² exposed to each hazard



100%

Cyclone

Landslide

205,995 People

148,601 People

0%

Earthquake

0 People









Flood

156,475 People



Tsunami

13,966 People

MHE 0.459 Raw MHE 0.464 Case Study: Potable Water in Peravia Relative MHE 0.455 In January 2017, the Peravia Multiple Aqueduct Project was completed by ACCIONA Aqua in the province of Peravia. With the opening of the aqueduct, more than 138,000 people were able to be supplied with potable water in the southern Dominican Republic. This infrastructure development was a significant accomplishment for an area that struggled with access to quality water resources for more than four decades. The project is operating at full capacity and includes a Potable Water Treatment Station, with the potential to reach over 300,000 people in the near future. "ACCIONA improves potable water supplies in the Dominican Republic with the opening of the Peravia aqueduct" - ACCIONA Agua, 03 January 2017

¹ Multi-Hazard Exposure: Average exposure of the population to hazards.

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

Findings: Risk and Vulnerability Assessment (RVA) Vulnerability (V)

Vulnerability³ Rank: 14 of 32 Provinces (Score: 0.473) Vulnerability in Peravia is influenced by Gender Inequality, Population Pressures, and Environmental Stress. The bar chart on the right indicates the socioeconomic themes contributing to the Province's overall Vulnerability score. Environmental StressVulnerable Health StatusClean Water VulnerabilityInformation Access VulnerabilityEconomic ConstraintsGender InequalityPopulation Pressures

Table 3. Component Scores for each Vulnerability Sub-component

	Environmental Stress	96.6% Province Susceptible to Drought	4.0% Average Annual Forest Change				
	Vulnerable Health Status	18.1 Infant Mortality Rate	73.4 Maternal Mortality Rate	10.4 Chronic Malnutrition	9.1% Population Disabled		
0	Clean Water Vulnerability	17.7% Households without Access to Improved Water	6.0% Households without Access to Flush Toilets				
e	Information Access Vulnerability	14.7% Illiteracy	79.9% Primary School Enrollment	92.4% Households without Internet	18.2% Households without TV	51.1% Households without Radio	5.7 Average years of Schooling
(is	Economic Constraints	59.3 Economic Dependency Ratio	47.3% Population in Poverty	25.0% CEP Beneficiaries			
çơ	Gender Inequality	34.9% Female Seats in Government	1.1 Female to Male Years of Schooling	0.50 Female to Male Labor Ratio			
	Population Pressures	0.68% Average Annual Population Change	4.8% Average Annual Urban Population Change				

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

Coping Capacity (CC)

Coping Capacity⁴ Rank: 18 of 32 Provinces (Score: 0.462) The thematic areas with the weakest relative scores are Environmental Capacity and Governance. The bar chart on the right indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.

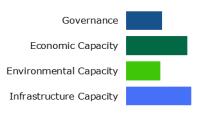


Table 4. Component Scores for each Coping Capacity Sub-component

\$\$	Economic Capacity		0.92 Debt to Service Ratio	93.1% Employment Rate (Male)	RD\$ 22,498 Average Annual Income per Capita			
	Governance		70.1% Registered Voter Participation (2016 Election)	26.8 Homicide Rate per 100k persons	74.3% Households with Garbage Collection			
	Environm Capacity	ental	20.8% Protected or Reforested Land					
	Infrastru Capacity	cture						
	Suparty							
		Health Capaci		11.7 Hospital Beds per 10,000 Persons	13.4 Nurses per 10,000 Persons	12.9 Physicians per 10,000 Persons	2.5 km Average Distance to Nearest Hospital	0.81 Vaccinatior Index ⁵
		Capaci	unications	Hospital Beds per 10,000	Nurses per 10,000	Physicians per 10,000	Average Distance to Nearest	Vaccination

⁴ Coping Capacity: The systems, means, and abilities of a country to absorb and respond to events that could potentially disrupt normal function.

⁵ Vaccination Coverage Index: Coverage of DPT (diphtheria, pertussis, and tetanus), Polio, Tuberculosis, and Measles vaccinations. Index values range from 0 to 1, with 1 indicating higher coverage.

Findings: Risk and Vulnerability Assessment (RVA)

Lack of Resilience (LR)

Lack of Resilience⁶ Rank: 14 of 32 Provinces (Score: 0.506)

Peravia's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores. Peravia ranks 14th in Vulnerability and 18th in Coping Capacity.

Table 5. The 3 Thematic areas with the Weakest Relative Scores



Multi-Hazard Risk (MHR)

Multi-Hazard Risk⁷ Rank: 23 of 32 Provinces (Score: 0.490)

Peravia's score and ranking are due to low Multi-Hazard Exposure combined with moderate Vulnerability and Coping Capacity.

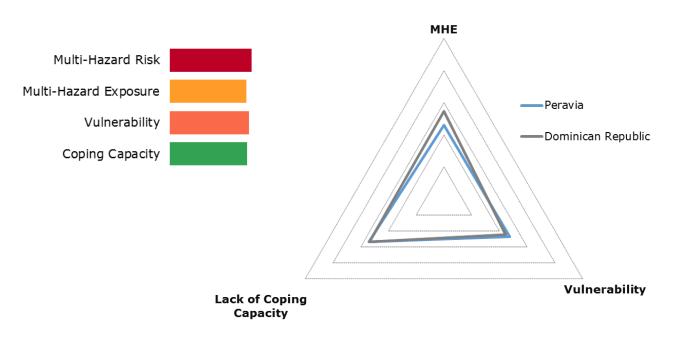


Figure 1. Province Multi-Hazard Risk Component Scores Compared to Overall Average Country Scores

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.

⁷ 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.

Successes



Low economic constraints

Ranked 23 of 32 provinces, low economic constraints indicate that Peravia may be able to invest in additional mitigation and preparedness measures at the local and community level.



High overall infrastructure capacity

Ranked 6 of 32 provinces, well developed infrastructure – communication, health care, transportation - facilitates the exchange of information, and physical distribution of goods and services to the population.

Recommendations



Increase environmental programs

Invest in programs to provide protection for the environment, including protected lands and reforestation projects, to increase the ability of the environment to recover after a disaster.

2 Reduce Banid por

Reduce population pressure

Rapid population changes are difficult to plan for, and can destabilize social, economic, and environmental systems. Analyze trends in the province to determine potential population changes and increase the update frequency of plans and SOPS to accommodate the changes.



Increase governance

High crime rates result in low governance scores. Youth-education programs, increased law enforcement, and personal safety-education messages can decrease crime and increase coping capacity.