Better solutions. Fewer disasters. Safer world.





Dominican Republic National Disaster Preparedness Baseline Assessment

Province Profile

Province: San José de Ocoa

Province Capital: San José de Ocoa

Area: 955 km²

Located in the southern foothills of the Cordillera Central (mountain), San José de Ocoa economy is fueled by forestry, fishing and agriculture including the production of coffee, potatoes, beans, carrots, cabbage, peanuts and avocados.







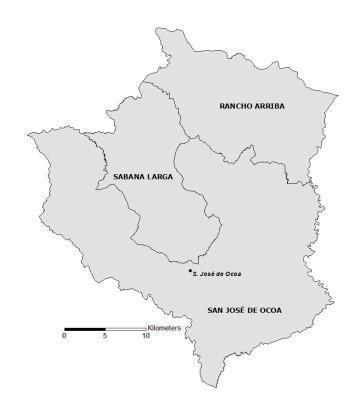




Municipality	Population
San José De Ocoa	37,114
Sabana Larga	9,214
Rancho Arriba	9,699

Multi-Hazard Risk Rank: Very Low (32 of 32)

Lack of Resilience Rank: Medium (15 of 32)



RVA Component Scores

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

Multi-H	lazard Risk	Lack of	Resilience	Multi-Hazard Exposure		Villnerability		Coping Capacity	
Very Low		Medium		Very Low		High		Medium	
Score	Rank (of 32)	Score	Rank (of 32)	Score	Rank (of 32)	Score	Rank (of 32)	Score	Rank (of 32)
0.393	32	0.503	15	0.172	30	0.476	13	0.470	15

Multi-Hazard Exposure (MHE)

Multi-Hazard Exposure¹ Rank: 30 of 32 Provinces (Score: 0.172)

Table 2. Estimated ambient population2 exposed to each hazard

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Cyclone

100%

74,851 People

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4%

Earthquake

10,189 People

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81%

Landslide

60,664 People

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6%

Flood

4,510 People



0%

Tsunami

0 People

Case Study: Fog Collection in San José de Ocoa

In the mountain province of San José de Ocoa, rural communities frequently experience water shortages. To address this issue, various projects have explored the idea of fog collection and whether it could potentially "provide additional water to... rural villages." In collaboration with Asociacion para el Desarrollo de San José de Ocoa Inc. (ADESJO), fog collection has included needs analyses for "clean drinking water, especially in the dry winter season," as well as "an examination of the local topography." Projects have proven successful, demonstrating that fog collection can provide substantial water to rural communities, alongside rainwater collection and storage.

"Fog Collection Evaluation Project" - http://www.fogquest.org/project-information/projects/dominican-republic/



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.

Vulnerability (V)

Vulnerability³ Rank: 13 of 32 Provinces (Score: 0.476) Vulnerability in San José de Ocoa is influenced by Gender Inequality, Information Access Vulnerability, and Vulnerable Health Status. The bar chart on the right indicates the socioeconomic themes contributing to the Province's overall Vulnerability score.

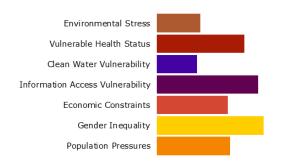


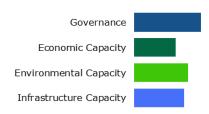
Table 3. Component Scores for each Vulnerability Sub-component

M.	Environmental Stress	6.3% Province Susceptible to Drought	-1.4% Average Annual Forest Change				
*	Vulnerable Health Status	17.6 Infant Mortality Rate	97.8 Maternal Mortality Rate	12.6 Chronic Malnutrition	10.7% Population Disabled		
0	Clean Water Vulnerability	9.6% Households without Access to Improved Water	9.4% Households without Access to Flush Toilets				
	Information Access Vulnerability	22.0% Illiteracy	89.0% Primary School Enrollment	96.5% Households without Internet	41.5% Households without TV	59.4% Households without Radio	5.4 Average years of Schooling
U\$	Economic Constraints	55.0 Economic Dependency Ratio	59.3% Population in Poverty	42.1% CEP Beneficiaries			
δα	Gender Inequality	34.9% Female Seats in Government	1.1 Female to Male Years of Schooling	0.53 Female to Male Labor Ratio			
	Population Pressures	0.90% Average Annual Population Change	1.7% 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: 15 of 32 Provinces (Score: 0.470) The thematic areas with the weakest relative scores are Economic Capacity and Infrastructure (Transportation and Communications). The bar chart on the right indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Transportation

Capacity

\$\$	Economic Capacity Governance Environmental Capacity		1.03 Debt to Service Ratio	92.0% Employment Rate (Male) 17.3 Homicide Rate per 100k persons	RD\$ 20,683 Average Annual Income per Capita			
			76.7% Registered Voter Participation (2016 Election)		69.8% Households with Garbage Collection			
			32.8% Protected or Reforested Land					
C n	Infrastru Capacity	cture						
		Health Capac		17.5 Hospital Beds per 10,000 Persons	22.2 Nurses per 10,000 Persons	19.8 Physicians per 10,000 Persons	3.4 km Average Distance to Nearest Hospital	0.79 Vaccination Index ⁵
		Com m Capac	unications ity	8.6% Households with Access to Fixed Phone Line	69.1% Households with Access to Mobile Phone			

36.0 km

Distance to

Nearest Port or Airport

Average

0.44 km

Total Length

of Road per

km² (area)

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.

Lack of Resilience (LR)

Lack of Resilience⁶ Rank: 15 of 32 Provinces (Score: 0.503)

San José de Ocoa's score and ranking are due to moderate Vulnerability combined with moderate Coping Capacity scores. San José de Ocoa ranks 13th in Vulnerability and 15th in Coping Capacity.

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



Multi-Hazard Risk (MHR)

Multi-Hazard Risk 7 Rank: 32 of 32 Provinces (Score: 0.393)

San José de Ocoa's score and ranking are due to very low Multi-Hazard Exposure combined with moderate Vulnerability and Coping Capacity.

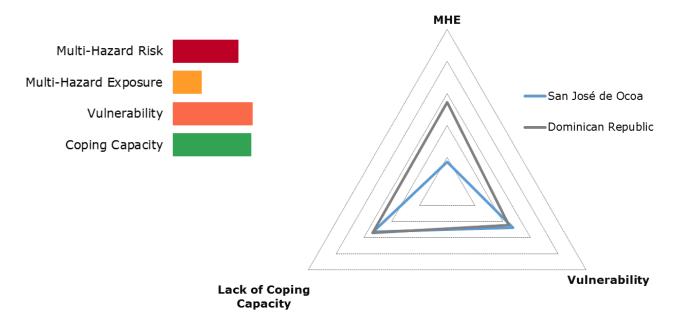


Figure 1. Province Multi-Hazard Risk Component Scores Compared to Overall Average Country Scores

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.

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



High environmental capacity

Ranked 6 of 32 provinces, high environmental capacity indicates that natural resources and agriculture will be more resilient to the effects of a disaster and may recover faster.



Lowest overall multi-hazard risk

Ranked 30th in Multi-Hazard Exposure, 13th in Vulnerability, and 15th in Coping Capacity. Low multi-hazard risk indicates a low susceptibility to impact and the ability to absorb, respond to, and recover from negative impacts that occur over the short term (Coping Capacity).



High overall governance

Ranked 8 of 32 provinces, high governance could facilitate the implementation of disaster management initiatives into provincial and municipal communities.

Recommendations

01

Increase health education

Provide health-education services for the population, especially new mothers and other special needs populations.

02

Invest in communication infrastructure

Invest in communication infrastructure to allow for easier access to information and education material, increasing literacy and situational awareness of the population.

03

Invest in transportation infrastructure

Investing in transportation infrastructure will facilitate the distribution of goods and services before, during, and after a disaster event.