Better solutions. Fewer disasters. Safer world.



Guatemala: Alta Verabaz

National Disaster Preparedness Baseline Assessment – Department Profile

Department: Alta Verapaz



Cobán

Chisec

Senahú

Cahabon

Panzós

Tucurú

La Tinta

Raxruhá

Chahal

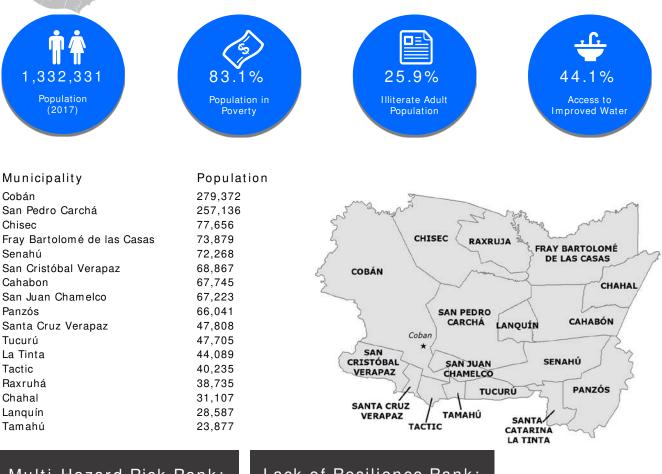
Languín

Tamahú

Tactic

Department Capital: Cobán Area: 8,686 km²

Alta Verapaz is located in north central Guatemala, just south of Petén. The department is one of the main palm oil export areas in the country and Central America. Alta Verapaz has the highest poverty rate in the country.



Multi-Hazard Risk Rank: Very High (4 of 22)

Lack of Resilience Rank: Very High (1 of 22)

RVA Component Scores

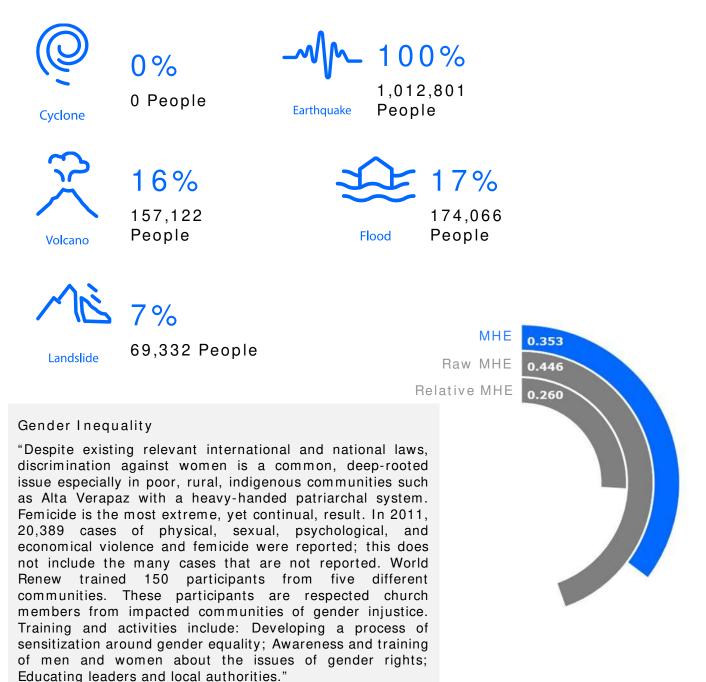
Table 24. Department scores and ranks (compared across departments) for each index

Multi-Hazard Risk Lack of Resilien		Resilience	Multi-Hazard Exposure		Vulnerability		Coping Capacity		
Very High		Very High		Low		Very High		Very Low	
Score	Rank (of 22)	Score	Rank (of 22)	Score	Rank (of 22)	Score	Rank (of 22)	Score	Rank (of 22)
0.583	4	0.698	1	0.353	18	0.707	1	0.311	21

Multi-Hazard Exposure (MHE)

Multi-Hazard Exposure¹ Rank: 18 of 22 Departments (Score: 0.353)

Table 15. Estimated ambient population² exposed to each hazard



https://worldrenew.net/what-we-do/projects/gender-justiceguatemala

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.

Vulnerability (V)

Vulnerability³ Rank: 1 of 22 Departments (Score: 0.707) Vulnerability in Alta Verapaz is primarily driven by Clean Water Vulnerability, Population Pressures, Gender Inequality and Information Access Vulnerability. The bar chart on the right indicates the socioeconomic themes contributing to the department's overall Vulnerability score.



 Table 26. Component scores for each Vulnerability sub-component

	Environmental Stress	0.4% Province at Drought Risk	0.2% Annual Forest Change					
	Vulnerable Health Status	29 Infant Mortality Rate	186.0 Maternal Mortality Ratio	0.7% Acute Malnutrition	1.0% Population Disabled	8.3 TB Incidence	4.3 Dengue Prevalence	6.4 Malaria Prevalence
0	Clean Water Vulnerability	44.1% Households with Access to Improved Water	21.4% Households with Access to Improved Sanitation					
e	Information Access Vulnerability	25.9% Adult Illiteracy	4.0 Average Years of Schooling	77.9% Primary School Enrollment	2.0% Households with Internet	14.1% Households with Cable TV	70.8% Households with Radio	89.7% Speak Indigenous Language
	Economic Constraints	0.91 Economic Dependency Ratio	83.1% Population in Poverty	0.50 GINI Coefficient				
çơ	Gender Inequality	11.1% Female Seats in Congress	0.26 Ratio of Female to Male Secondary Education Enrollment	0.31 Ratio of Female to Male Economic Activity				
	Population Pressures	0.4% Province at Drought Risk	0.2% Annual Forest 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: 21 of 22 Departments (Score: 0.311) Alta Verapaz displays a very low level of Coping Capacity, which is attributable to very low Economic Capacity and Infrastructure Capacity. The bar chart on the right indicates the socioeconomic themes contributing to the department's overall Coping Capacity score.

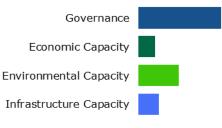


Table 2. Component scores for each Coping Capacity sub-component

	Governance Economic Capacity		122.2 Crime Victims per 100K	7.3% Households with Garbage Collection					
\$\$			\$306.0 Remittances per Capita (USD)	6.04 Businesses per 1,000 persons	6 ,255 GDP per Capita (Quetzales)				
	Environmental Capacity		6.4% Protected Land	1.6% Reforested Area					
M	Infrastructure Capacity								
		Health Care Capacity		13.9 Hospital Beds per 10,000 Persons	1.3 Nurses per 10,000 Persons	1.5 Physicians per 10,000 Persons	27.4 km Average Distance to Nearest Hospital	86.9% Children Completed Immunization Schedule	
		Commu Capacit	nications y	3.14% Households with Access to Fixed Phone Line	81.6% Households with Access to Mobile Phone	44.1% Households with Access to Electricity			
	Transportation Capacity		23.6 km Average Distance to Nearest Port or Airport	9.1 km Total Length of Road per 100 km ² (area)					

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

Lack of Resilience (LR)

Lack of Resilience⁵ Rank: 1 of 22 Departments (Score: 0.698)

Alta Verpaz's score and ranking are due to very high Vulnerability combined with very low Coping Capacity scores.

Table 283. The 3 thematic areas with the weakest relative scores



Multi-Hazard Risk (MHR)

Multi-Hazard Risk⁶ Rank: 4 of 22 Departments (Score: 0.583)

Alta Verapaz's score and ranking are due to very high Vulnerability, low Multi-Hazard Exposure combined with very low Coping Capacity scores.

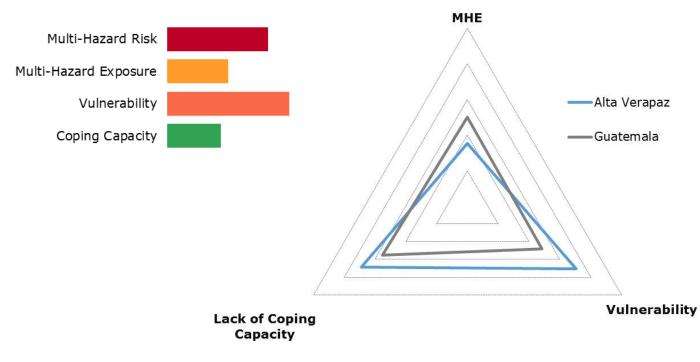


Figure 1. Department Multi-Hazard Risk Component scores compared to overall average country scores

⁵ 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 socioeconomic conditions.

⁶ 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



Lowest environmental stress

Ranked 22 of 22 departments, low environmental stress indicates that natural resources and agriculture will be more resilient to the effects of a disaster and may recover faster.

High overall governance

Ranked 3 of 22 departments, high governance could facilitate the implementation of disaster management initiatives into departmental and municipal communities.

Recommendations



Invest in infrastructure

Invest in Health Care, Transportation and Communication Infrastructures to increase coping capacity and resiliency within the department.



Increase water and sanitation services

Invest in public water and waste facilities to increase water quality and access and reduce the spread of disease.



Provide opportunities for women

Public education and awareness programs that focus on increasing the role of women in the workplace and the society will improve the resilience of women during disasters.



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NDPBA Guatemala Report 1305 N. Holopono Street, Suite 2 Kihei, Hawaii, 96753 Phone: (808) 891-0525 | Fax: (808) 891-0526

ndpba@pdc.org | www.pdc.org

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