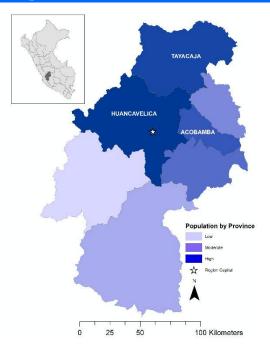
Region: Huancavelica



Region Capital: Huancavelica Region Area: 23,406 km²

Huancavelica is one of twenty-five regions in Peru. Located in the southern interior of the country, its primary economic activities include power generation via hydro-electric and natural gas, as well as the provision of other services (e.g., tourism) and mining. Huancavelica is the region's capital. As of 2015, the region's population was estimated at 494,963; with the highest percentage of its population residing in the provinces of Acobamba, Huancavelica and Tayacaja. Relative to the rest of Peru, the population of Huancavelica has lower than average life expectancy (69.8 years) and access to improved water sources (75.1%), with higher than average poverty (46.6%) and illiteracy (15.6%).











Multi-Hazard Risk (MHR) 1

Score = 0.594, Rank = 3 of 25

Of the twenty-five regions of Peru, Huancavelica ranks 3rd in multi-hazard risk (MHR = 0.594). Table 1 outlines the individual components that contribute to risk. As shown in the bar chart of Figure 1, Huancavelica's very high multi-hazard risk is a function of its low multi-hazard exposure (MHE = 0.402), very high vulnerability (V = 0.690), and very low coping capacity (CC = 0.309). The ternary graph at right shows that Huancavelica' exposure is lower than the national average, while both vulnerability and lack of coping capacity are significantly higher.

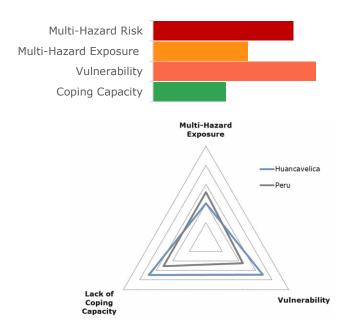


Figure 1. Components of the Multi-Hazard Risk Score compared to the national average.

¹ Multi-Hazard Risk (MHR): An index that measures the likelihood of losses or disruptions to a region's normal function due to interaction between multi-hazard exposure, socioeconomic vulnerability and coping capacity. MHR = (MHE + V + (1-CC))/3. Values range from 0-1.

Components of Multi-Hazard Risk (MHR) ²

Table 1. Scores and ranks for each component of the Multi-Hazard Risk Score.

Multi-Hazard Exposure (MHE)		Vuli	nerability (V)	Coping Capacity (CC)		
Low		Ve	ery High	Very Low		
Score	Rank (of 25)	Score	Rank (of 25)	Score	Rank (of 25)	
0.402	17	0.690	1	0.309	23	

Multi-Hazard Exposure (MHE)³

Score = 0.402, Rank = 17 of 25

Huancavelica has low multi-hazard exposure relative to other regions of Peru (MHE = 0.402). This score is a function of both Raw and Relative MHE, as shown in Figure 2. The Raw MHE Score is an index reflecting the absolute value of population exposed to multiple hazards. This score can aid in understanding the overall scale of hazard exposure. The Relative MHE Score is an index reflecting the proportion of the region's base population exposed. This score can assist in the determination of how important hazards are, and can help prioritize disaster management activities across regions. Estimates of exposure by hazard type are summarized in Table 2.

Table 2. Estimated ambient population4 exposed to each hazard type.

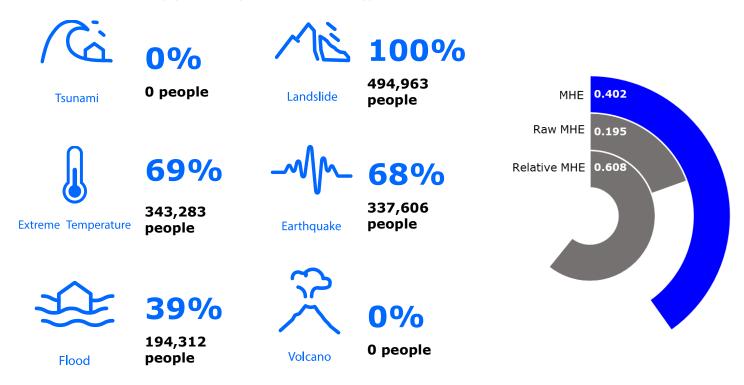


Figure 2. Average, raw and relative Multi-Hazard Exposure Scores.

 $^{^{2}}$ MHR = (MHE + V + (1-CC))/3.

³ Multi Hazard Exposure (MHE): An index based on the estimated average exposure of the population to six hazard types: tsunamis, landslides, extreme temperature, earthquakes (MMI VII and above), floods and volcanos. Average exposure considers both raw average exposure and relative average exposure as a proportion of total population. Values range from 0-1.

⁴ **Ambient Population**: 24-hour average estimate of the population; typically differs from census population.

Vulnerability (V) 5

Score = 0.690, Rank = 1 of 25

Huancavelica has very high vulnerability relative to other Peruvian regions (V = 0.690). The bar chart on the right displays the composition of its overall Vulnerability Score. As shown, vulnerability Huancavelica is driven primarily by information access, economic constraints, and clean water access. The table below summarizes the individual indicators within each socio-economic theme.

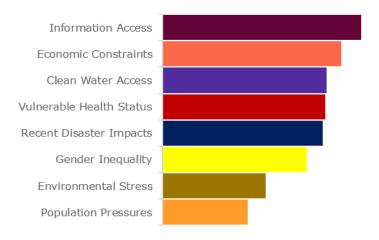


Figure 3. Components of the Vulnerability Score by relative contribution.

Table 3. Indicators of vulnerability grouped by theme.

	Environmental Stress	1.38 % of total regional area with irrigation- fed agriculture	17.3 % of total regional area with severe erosion				
**	Vulnerable Health Status	29.3 Infant mortality rate per 1k births	74.2 Maternal deaths per 100k births	69.8 Average life expectancy (years) at birth	42.4 % of children under 5 years of age that are malnourished	4.7 % of population with 1 or more disability	
0	Clean Water Vulnerability	75.1 % households with access to improved water	28.0 % households with access to flush toilets				
	Information Access Vulnerability	15.6 % of population 15yrs and older that are illiterate	7.7 Average years of schooling	62.7 % primary school enrollment	2.0 % households with internet	56.3 % households with television	68.8 % households with radio
(S)	Economic Constraints	0.76 Ratio of dependents to working age population (15-64 years)	57.55 Ratio of average monthly household expenses to income	46.6 % of population monetarily impoverished			
δQ	Gender Inequality	0.50 Proportion of female representatives in local government	0.48 Ratio of female to male secondary enrollment	0.95 Ratio of female to male labor participation			

⁵ **Vulnerability (V)**: An index that measures the socioeconomic conditions associated with susceptibility to disruptions in a region's normal functions. Values range from 0-1.



Population Pressures

0.8 % Average annual population change (2010-2015)



Recent Disaster **Impacts**

1,235.5 Average annual hazard-related deaths per 10k persons (2010-2014)

7.9 Average annual number of homes destroyed by recent hazards per 10k persons (2010 -2014)

Coping Capacity (CC) 6

Score = 0.309, Rank = 23 of 25

Huancavelica has a very low coping capacity relative to other regions (CC = 0.309). The bar chart on the right displays the composition of its overall Coping Capacity Score. As shown, coping capacity in Huancavelica is hindered primarily by its environmental and economic capacity. The table below summarizes the individual indicators within each socio-economic theme.

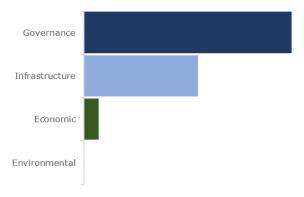


Figure 4. Components of the Coping Capacity Score by relative contribution.

Table 4. Indicators of coping capacity grouped by theme.



Economic Capacity

Average monthly income (\$)

\$8,376 Gross domestic product per capita



Governance

0.69

Registered cases of sexual violence per 10k persons

2.28

Registered cases of missing persons per 10k persons 0.006

Average annual number of social conflicts per 10k persons (active and resolved)

5,597

of voters per 10k persons (2014 election)



Environmental Capacity

% protected or reforested land

⁶ Coping Capacity (CC): An index that measures the systems, means and abilities of a region to absorb and respond to events that could potentially disrupt normal function. Values range from 0-1.



Infrastructure Capacity

	Healthcare Capacity	8.2 # of hospital beds per 10k persons	# of nurses per 10k persons	5.4 # of physicians per 10k persons
((<u>A</u>))	Communications Capacity	1.7 % households with fixed phone line	74.7 % households with mobile phone	
	Transportation Capacity	1.3 Port/airport density per 10,000 sq	2,991.0 Road/rail density per 10,000 sq	

km

Resilience (R) ⁷

Score = 0.309, Rank = 25 of 25

Resilience is a function of both vulnerability and coping capacity. Huancavelica is significantly less resilient than the national average, and its very low Resilience Score (R = 0.309) is due to its very high vulnerability and very low coping capacity. The region's baseline indicators suggest a focus for resilience-building efforts. In Huancavelica, the thematic areas with the weakest relative scores are summarized in the table below. Readers can additionally consult Appendix 1 for a comprehensive assessment of its need for specific program types relative to other regions.

Table 5. The top 3 thematic areas with the weakest relative scores.







Economic Capacity

⁷ **Resilience (R):** An index that offers a hazard-independent measure of current socio-economic conditions affecting the short-term ability to absorb, respond to, and recover from disruptions to a region's normal function. Values range from 0-1.