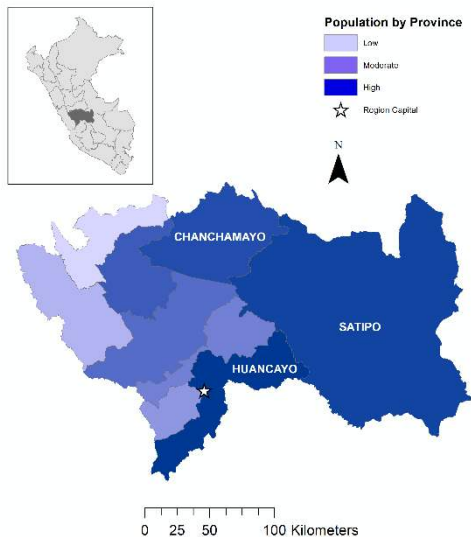


Region: Junín



Region Capital: Huancayo
Region Area: 46,276 km²

Junín is one of twenty-five regions in Peru. Located in the interior of central Peru, mining, service industries, and commerce are the predominate economic activities. Huancayo is the region’s capital. As of 2015, the region’s population was estimated at 1,350,783; with the highest percentage of its population residing in the provinces of Huancayo, Chanchamayo and Satipo. Relative to the rest of Peru, the population of Junín has lower than average life expectancy (71.9 years), higher than average access to improved water (84.9%), and lower than average poverty (19.5%) and illiteracy (6.6%).



Multi-Hazard Risk (MHR) ¹

Score = 0.599, Rank = 2 of 25

Of the twenty-five regions of Peru, Junín ranks 2nd in multi-hazard risk (MHR = 0.599). Table 1 outlines the individual components that contribute to risk. As shown in the bar chart of Figure 1, Junín’s very high multi-hazard risk is a function of its high multi-hazard exposure (MHE = 0.795), moderate vulnerability (V = 0.446), and low coping capacity (CC = 0.444). The ternary graph at right shows that Junín’s exposure is significantly higher than the national average, while vulnerability and lack of coping capacity are similar to the national averages for these components.

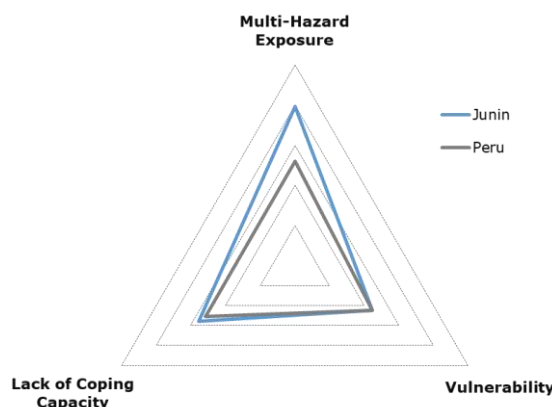
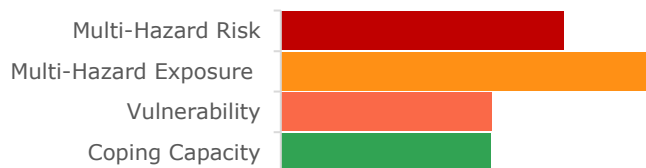


Figure 1. Components of the Multi-Hazard Risk Score compared to the national average.

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) | | Vulnerability (V) | | Coping Capacity (CC) | |
|-----------------------------|--------------|-------------------|--------------|----------------------|--------------|
| Very High | | Medium | | Low | |
| Score | Rank (of 25) | Score | Rank (of 25) | Score | Rank (of 25) |
| 0.795 | 2 | 0.446 | 12 | 0.444 | 16 |

Multi-Hazard Exposure (MHE) ³

Score = 0.795, Rank = 2 of 25

Junín has very high multi-hazard exposure relative to other regions of Peru (MHE = 0.795). 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.

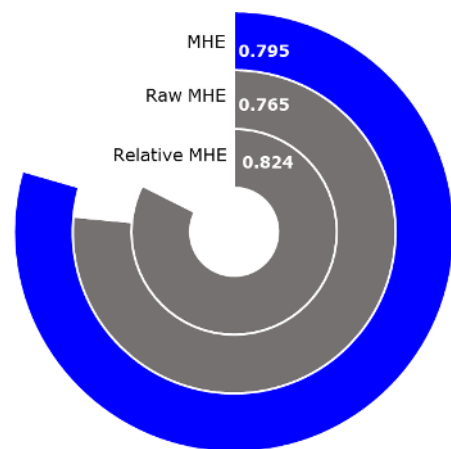
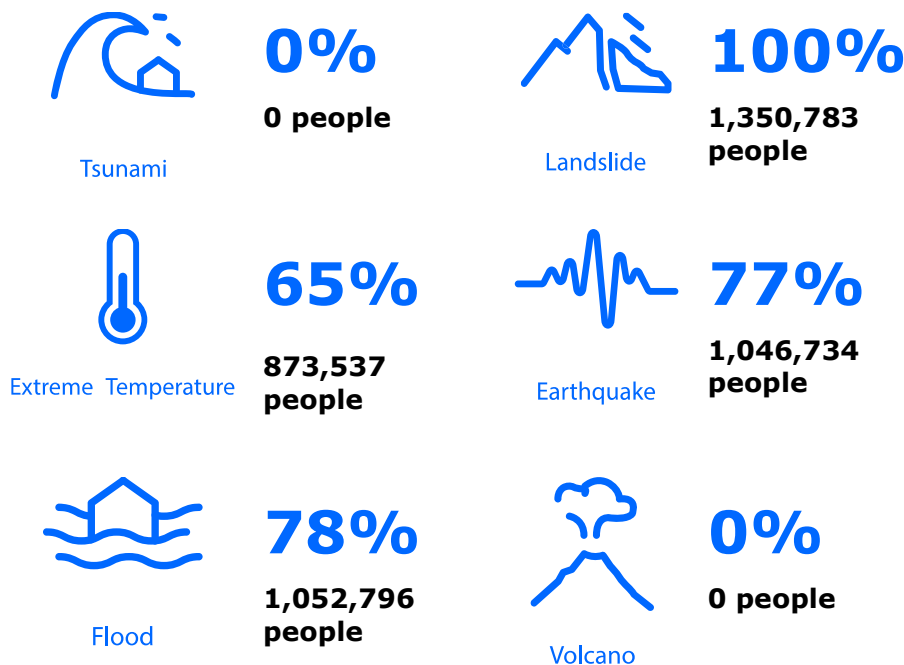


Figure 2. Average, raw and relative Multi-Hazard Exposure Scores.

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 = 0.446, Rank = 12 of 25

Junín has moderate vulnerability relative to other Peruvian regions (V = 0.446). The bar chart on the right displays the composition of its overall Vulnerability Score. As shown, vulnerability in Junín is driven primarily by population pressures, economic constraints, and information access. The table below summarizes the individual indicators within each socio-economic theme.

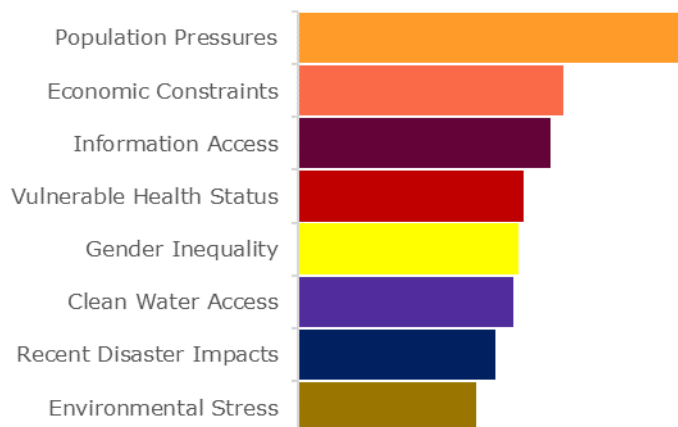








Figure 3. Components of the Vulnerability Score by relative contribution.

Table 3. Indicators of vulnerability grouped by theme.

| | | | | | | | |
|---|---|--|---|--|---|---|--|
|  | Environmental Stress | 1.4 % of total regional area with irrigation-fed agriculture | 6.2 % of total regional area with severe erosion | | | | |
|  | Vulnerable Health Status | 18.0 Infant mortality rate per 1k births | 65.2 Maternal deaths per 100k births | 71.9 Average life expectancy (years) at birth | 24.2 % of children under 5 years of age that are malnourished | 3.4 % of population with 1 or more disability | |
|  | Clean Water Vulnerability | 84.9 % households with access to improved water | 58.5 % households with access to flush toilets | | | | |
|  | Information Access Vulnerability | 6.6 % of population 15yrs and older that are illiterate | 9.6 Average years of schooling | 68.0 % primary school enrollment | 11.5 % households with internet | 82.8 % households with television | 83.4 % households with radio |
|  | Economic Constraints | 0.60 Ratio of dependents to working age population (15-64 years) | 58.49 Ratio of average monthly household expenses to income | 19.5 % of population monetarily impoverished | | | |
|  | Gender Inequality | 0.50 Proportion of female representatives in local government | 0.74 Ratio of female to male secondary enrollment | 0.83 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

-1.2
% Average annual population change (2010-2015)



Recent Disaster Impacts

85.7 Average annual hazard-related deaths per 10k persons (2010-2014)
5.1 Average annual number of homes destroyed by recent hazards per 10k persons (2010-2014)

Coping Capacity (CC) ⁶

Score = 0.444, Rank = 16 of 25

Junín has a low coping capacity relative to other regions (CC = 0.444). The bar chart on the right displays the composition of its overall Coping Capacity Score. As shown, coping capacity in Junín is hindered primarily by its economic and environmental capacities. The table below summarizes the individual indicators within each socio-economic theme.

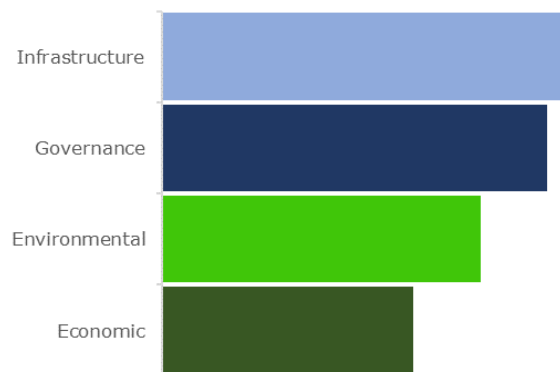


Figure 4. Components of the Coping Capacity Score by relative contribution.

Table 4. Indicators of coping capacity grouped by theme.



Economic Capacity

\$1,045 Average monthly income (\$)
\$10,915 Gross domestic product per capita



Governance

2.79 Registered cases of sexual violence per 10k persons
3.86 Registered cases of missing persons per 10k persons
0.005 Average annual number of social conflicts per 10k persons (active and resolved)
6,354 # of voters per 10k persons (2014 election)



Environmental Capacity

13.2 % 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 | 13.6 # of hospital beds per 10k persons | 23.1 # of nurses per 10k persons | 12.8 # of physicians per 10k persons |
| | Communications Capacity | 14.7 % households with fixed phone line | 84.5 % households with mobile phone | |
| | Transportation Capacity | 3.3 Port/airport density per 10,000 sq km | 1,681.3 Road/rail density per 10,000 sq km | |

Resilience (R) ⁷

Score = 0.499, Rank = 16 of 25

Resilience is a function of both vulnerability and coping capacity. Junín is less resilient than the national average, and its low Resilience Score (R = 0.499) is due to its moderate vulnerability and low coping capacity. The region’s baseline indicators suggest a focus for resilience-building efforts. In Junín, 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 Constraints



Population Pressures



Governance

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.