COSTA RICA

BASIC COUNTRY STATISTICS AND INDICATORS

- Population (million people)
- Population density (People/km²)
- GDP (milion US$)
- GDP per capita (US$)
- Capital stock (milion US$)

Risk drivers

- Hazard Exposure
- Poverty and inequality
- Governance indicators

Risk and Development Implications

- Economic implications (Capital stock - savings)
- Growth and financial implications (GFCF - Reserve)
- Social Implications (Social expenditure)

DISASTER RISK

Average Annual Loss (AAL)

- Probability Maximum Loss - PML

Multihazard AAL results by sector (Earthquake and cyclonic wind)

- Sector
- Sub Sector
- Capital stock (million US$)
- Average Annual Loss (AAL) (million US$)

Probable Maximum Loss - PML

Hazard
- Earthquake
- Cyclonic Wind
- Storm Surge
- Tsunami
- Volcano
- Flood

Mean return period (years)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Mean return period (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earthquake</td>
<td>100 - 250 - 500 - 1000 - 1500</td>
</tr>
<tr>
<td>Cyclonic Wind</td>
<td>100 - 500 - 1000 - 1500</td>
</tr>
<tr>
<td>Storm Surge</td>
<td>100 - 500 - 1000 - 1500</td>
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<tr>
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Average Annual Loss (AAL) by hazard

- Earthquake
- Cyclonic Wind
- Storm Surge
- Tsunami
- Volcano
- Flood
### Volcano exposure

- **Number of volcanoes**: 10
- **Population living within 30km in country (Pop30)**: 3,424,754
- **% of pop living within 30km**: 75

### Mortality

- **DataCards**: 1,046
- **Deaths**: 19
- **Houses destroyed**: 33
- **Houses damaged**: 4,640
- **Combined economic losses**: 32,284,883

### 10-year moving average (2005 - 2013)

- **Combined economic losses**: 32,284,883
1 World Bank Development indicators. http://data.worldbank.org/ More information can be found in "Indicators definitions and sources".


6 Global Footprint Network www.footprintnetwork.org

7 Environmental Performance Index, Yale Center for Environmental Law and Policy, Yale University and Center for International Earth Science Information Network (CIESIN), Columbia University http://epi.yale.edu

8 UNISDR Global Risk Assessment 2015. This section is based on technical countries risk profiles : World summarized catastrophe risk profiles: summary by country on the results from the Global Risk Model, CIMNE&INGENIAR (2015).

9 AAL: The Average Annual Loss is the expected loss per annum associated to the occurrence of future perils assuming a very long observation timeframe. It considers the damage caused on the exposed elements by small, moderate and extreme events and results a useful and robust metric for risk ranking and comparisons.

AAL Flood results are provisional. These results give an overview of the risk associated with river flooding. Factors other than the depth of the water also have a considerable influence on loss, which means that there is greater uncertainty compared with other hazards.

11 Risk and development implications index. This index is useful to provide a ranking of the countries based on the ratio of the expected Average Annual Loss (AAL) with relation to a set of relevant macroeconomic, financial, and social development variables. It attempts to reveal the weight of the AAL with respect to the social expenditure, the capital formation (domestic investment) and reserves (financial capacity), and the produced capital or capital stock (assets at risk) and savings (treasury) of each country. It reflects, in adverse conditions, growth and social constraints for the country as a result of potential future disasters.

12 The fiscal portfolio is composed by the government buildings, public education and health buildings, and low income residential private buildings.

PML: The Probable Maximum Loss (PML) is a risk metric that represents the maximum loss that could be expected, on average, within a given number of years. PML is widely used to establish limits related to the size of reserves that, for example, insurance companies or a government should have available to buffer losses: the higher the return period, the higher the expected loss. PML always have associated a mean return period.

Mean return period of 100, 250, 500, 1000 and 1500 years means the 5%, 2%, 1%, 0.5% and 0.3% probability respectively of exceeding those losses in 5 years.

15 Residential buildings are classified according to the population by income level, using the GINI curve for income distribution and the countries classification limits from the World Bank. See CIMNE et al. 2013a

Source: OCHA/ReliefWeb, ochavisual@un.org

National Disaster Loss databases. Credits correspond to the institution in charge of updating/developing the database on each country. See Acknowledgements pages in the GAR 2015, and http://www.desinventar.net