

HONDURAS Earthquakes and Hurricanes RISK PROFILE

What is a country disaster risk profile?

An estimation of the potential economic losses to property caused by adverse natural hazards.

Country Disaster Risk Profile

Applications

- ▶ **Develop** key baseline data
- ▶ **Evaluate** impact of disasters
- ▶ **Promote and inform** risk reduction
- ▶ **Inform** disaster risk financing

Country At-A-Glance

GDP US\$ **19.3 billion** | Population **8.3 million** | Total Building Exposure US\$ (Replacement Value) **27.5 billion**

Population

Rural **46%**



Urban **54%**

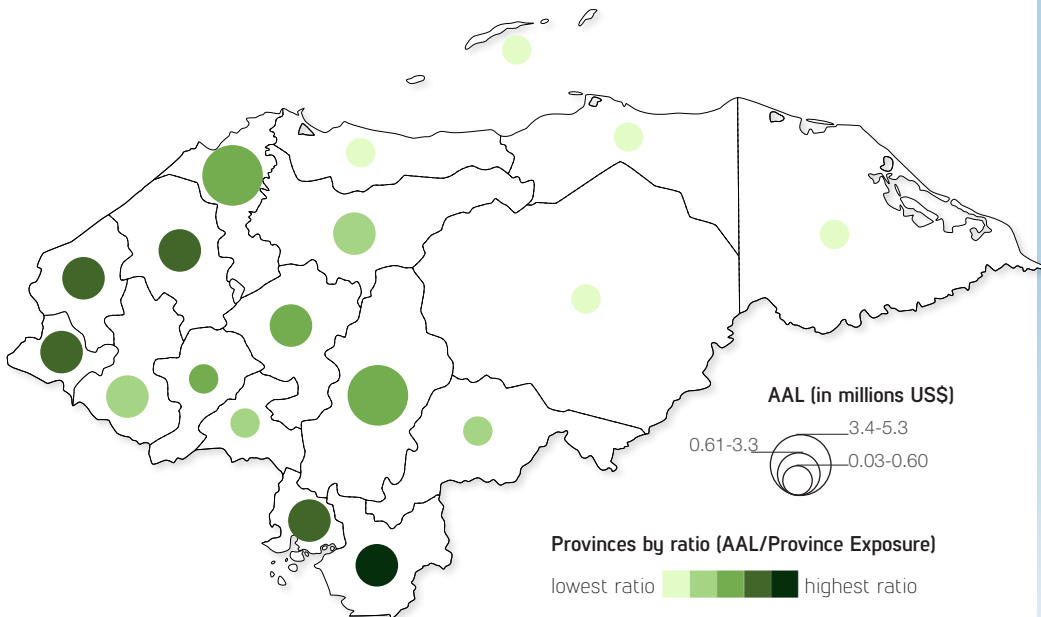
Gross Capital Stock

Public **30%**



Private **70%**

Two representations of earthquake risk



Absolute Risk: The larger the circle, the higher the Annual Average Losses that the province could potentially incur over the long term.

Relative Risk: The darker the color, the higher the ratio of AAL/Province Exposure. The darkest color represents the province of Choluteca which has a higher proportion of vulnerable structures due to construction types and/or potentially higher earthquake intensity.



Snapshot

▶ The hurricane risk in Honduras is **more significant** than the earthquake risk.

▶ Annual Average Loss (AAL) from hurricanes is **US\$ 48M (0.25% of GDP)** and from earthquakes is **US\$ 25.5M (0.13% of GDP)**.

▶ The Probable Maximum Loss for hurricanes (250 year return period) is **US\$ 1.6B (8% of GDP)** and for earthquakes (250 year return period) is **US\$ 684M (3.5% of GDP)**.

▶ Single-family, residential houses constructed with adobe are the buildings most vulnerable to earthquakes, **accounting for over 40% of AAL**.

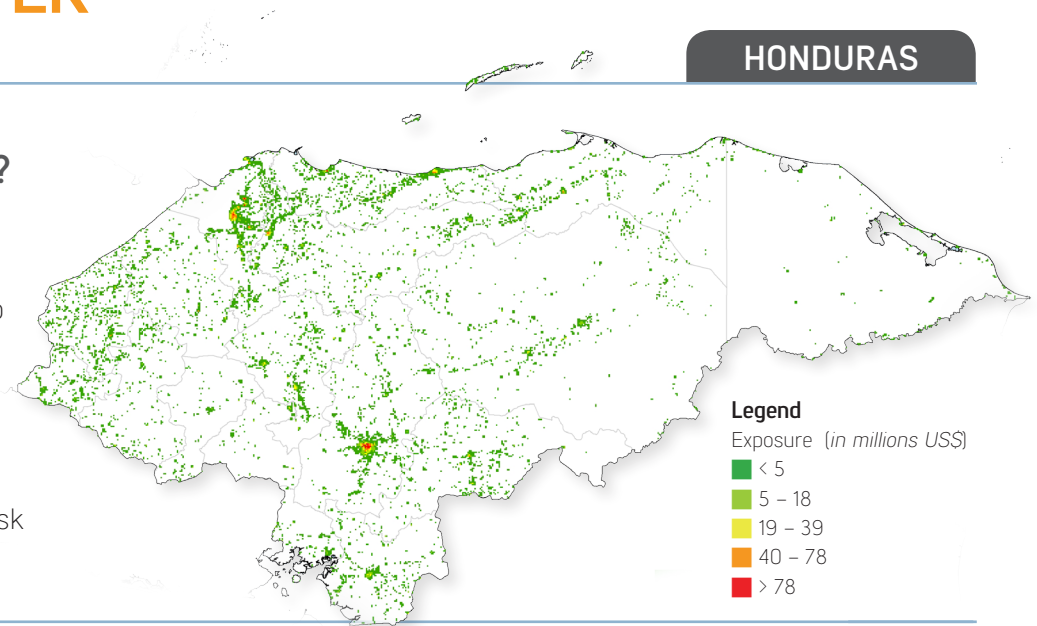
COUNTRYDISASTER RISK PROFILES

HONDURAS

What is at risk in Honduras?

Economic assets such as residential and non-residential buildings are at risk. These assets that are exposed to natural disasters are referred to as a country's **Building Exposure**.

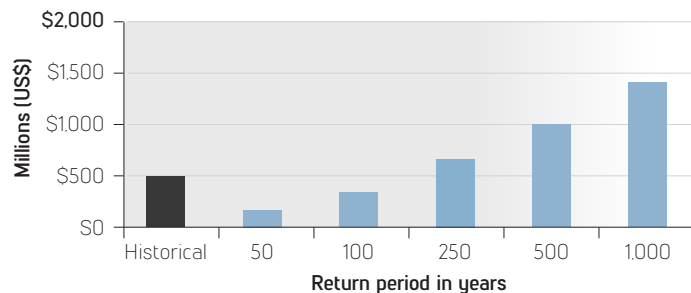
The map illustrates the value and distribution of residential and non-residential buildings in Honduras at risk from earthquakes and hurricanes.



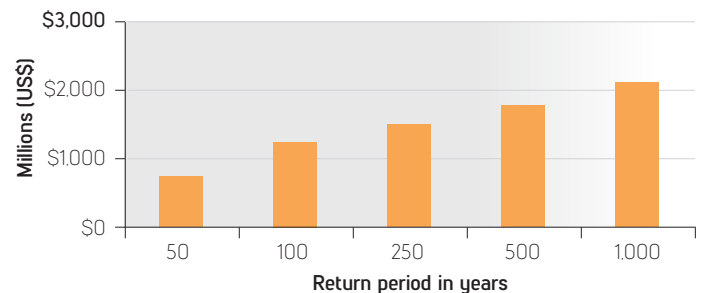
What are the potential losses in Honduras?

These charts show the estimated potential future losses to Honduras that could be caused by earthquakes and hurricanes that could occur within a given return period. In 1851, a magnitude 6.2 earthquake struck Honduras. If this historical event were to happen in 2015, it would cause losses of US\$ 490M, amounting to 3% of GDP.

Estimated Losses Due to **EARTHQUAKES**

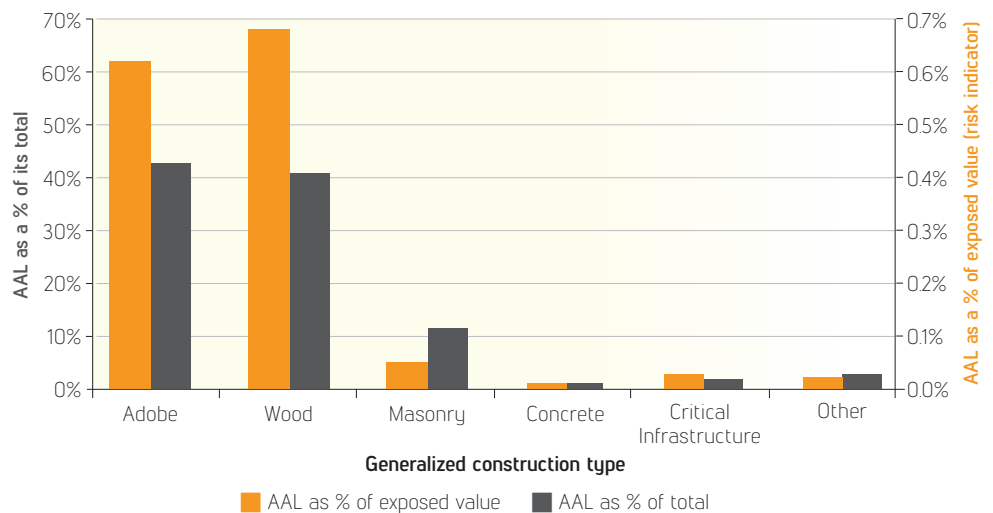


Estimated Losses Due to **HURRICANES**



How can hurricane risk be reduced?

Adobe and wood structures are the most prevalent building types in Honduras. These account for over 80% of AAL due to hurricanes. Wood structures, however, are the riskiest type of construction.



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1818 H Street NW
Washington DC 20433
Telephone: 202-473-1000
Internet: www.worldbank.org

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