

JAMAICA Hurricanes and Earthquakes 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

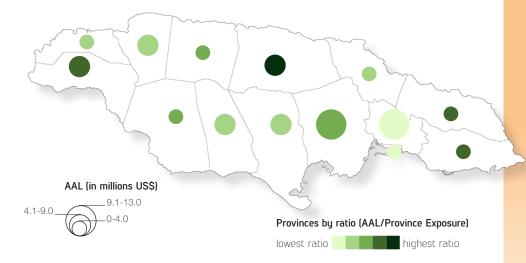
- > Inform disaster risk financing
- Develop key baseline data
- **Evaluate** impact of disasters
- > Promote and inform risk reduction

Country At-A-Glance

GDP US\$ | Population | Total Building Exposure US\$ (Replacement Value) | 13.9 | billion | 2.720.000 | 36.4 | billion |



Two representations of hurricane 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 Saint Ann which has a higher proportion of vulnerable structures due to construction types and/or potentially higher hurricane intensity.





The hurricane risk in Jamaica is more significant than the earthquake risk.

Annual Average Loss
(AAL) from hurricanes is
US\$ 67.3M (0.5%
of GDP) and from
earthquakes is US\$
36M (0.3% of GDP).

The Probable Maximum
Loss for hurricanes (250
year return period) is US\$
3.5B (25.3% of GDP)
and for earthquakes (250
year return period) is US\$
2B (14.6% of GDP).

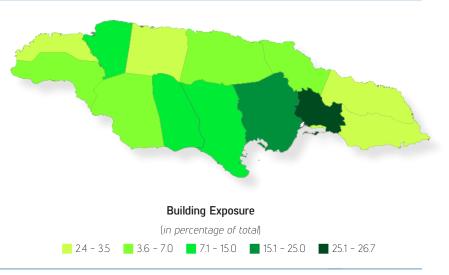
Single-family, wood stud-wall frame with plywood/gypsum board sheathing, as well as reinforced masonry bearing walls with concrete diaphragms, are the buildings most vulnerable to hurricanes, each category accounting for 23% of AAL.

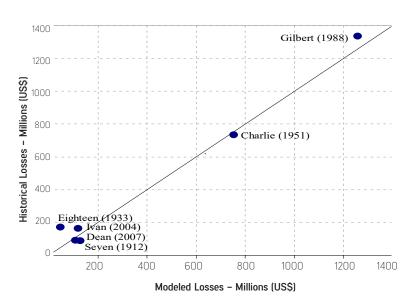
COUNTRYDISASTER RISK PROFILES

What is at risk?

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 provides the value of residential and non-residential buildings in each province at risk from hurricanes and earthquakes.



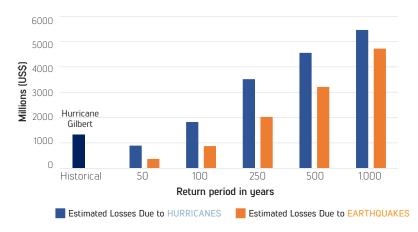


What have been the historical losses?

Jamaica has suffered significant losses from hurricanes. The direct losses have been modeled to a high degree of accuracy in the risk profile. In 1988, Hurricane Gilbert struck Jamaica. If this historical event were to happen in 2016, it would cause a loss of US\$ 1.3B, amounting to 9.6% of GDP.

The chart shows the direct actual and modeled losses due to historical events

What are the potential future losses?



The chart shows the estimated potential future losses in Jamaica that could be caused by hurricanes and earthquakes for a given return period.

This is the first step of quantification of contingent liability. Next steps include determining its impact on budgetary appropriation, which would directly inform the development of the disaster risk financing strategy.

To learn more, visit: collaboration.worldbank.org/groups/cdrp or email cdrp@worldbank.org















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