InaSAFE

Analysis question

In the event of a Cyclone, how many Structures might be affected?

General report

Estimated number of structures affected per hazard zone

Hazard Zone	Count
High	9,800
Medium	0
Low	0
Total Exposed	9,800

Structures	Count
Affected	9,800
Not Affected	0
Not Exposed	0

- **Affected**: An exposure element (e.g. people, roads, buildings, land cover) that experiences a hazard (e.g. tsunami, flood, earthquake) and endures consequences (e.g. damage, evacuation, displacement, death) due to that hazard.

Analysis detail

Estimated number of structures affected by structure type

Structure type	Affected		Not affected	Total not exposed	Total
	High	Total affected	Total not affected		
Residential	49	49	0	0	49
Education	16	16	0	0	16
Health	3	3	0	0	3
Place of worship	2	2	0	0	2
Public facility	1	1	0	0	1
Other	9,700	9,700	0	0	9,700
Total	**9,800**	**9,800**	**0**	**0**	**9,800**

Aggregation result

Estimated number of structures affected by aggregation area

Aggregation area	Residential	Education	Health	Place of worship	Public facility	Other	Total

Homoine	5	0	0	0	0	5,700	5,700
Jangamo	44	16	3	2	1	4,000	4,100
Total	**49**	**16**	**3**	**2**	**1**	**9,700**	**9,800**

Notes and assumptions

Analysis notes

- Columns and rows containing only 0 or "No data" values are excluded from the tables.

Structure exposure general notes

- The impacts on roads, people, buildings and other exposure elements may be underestimated if the exposure data are incomplete.
- Structures overlapping the analysis extent may be assigned a hazard status lower than that to which they are exposed outside the analysis area.
- Numbers reported for structures have been rounded to the nearest 100 if more than 1,000 and less than 100,000; and nearest 1000 if more than 100,000.
- Rounding is applied to all structure counts greater than 1,000 which may cause discrepancies between subtotals and totals.
- Note that report rows containing totals are calculated from the entire analysis area totals and then rounded, whereas the subtotal rows are calculated from the aggregation areas and then rounded. Using this approach we avoid adding already rounded numbers and in so doing compounding the rounding.

Cyclone general notes

- The analysis performed here only considers the impact of **severe winds** from tropical cyclones. The impact of other associated hazards (storm surge inundation, flood) must be analysed separately.
- The extent and severity of the mapped scenario or hazard zones may not be consistent with future events.
- The impacts on roads, people, buildings and other exposure elements may differ from the analysis results due to local conditions such as terrain and infrastructure type.
- The analysis extent is limited to the extent of the aggregation layer or analysis extent. Hazard and exposure data outside the analysis extent are not included in the impact layer, impact map or impact reports.

Affected notes

- Exposures in the following hazard classes are considered affected: High, Medium

Analysis details

Hazard source Cyclone Wind 100 Years Return Period - source not available -

Exposure source Osm Buildings (Daily extracts) - Openstreetmap -

Aggregation source Mozambique Districts - DIVA GIS -

Impact Function Cyclone Raster On Structures Polygon