

Analysis question

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

General report

Estimated number of structures affected per hazard zone

Hazard Zone	Count
High	4
Medium	2,500
Low	20,000
Total Exposed	22,500

Structures	Count
Affected	2,500
Not Affected	20,000
Not Exposed	18,700

- **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	Medium	Total affected	Low	Total not affected		
Residential	0	0	0	16	16	2	18
Education	0	0	0	0	0	1	1
Commercial	0	0	0	0	0	1	1
Other	4	2,500	2,500	20,000	20,000	18,700	41,100
Total	4	2,500	2,500	20,000	20,000	18,700	41,100

Aggregation result

Estimated number of structures affected by aggregation area

Aggregation area	Other	Total
Marromeu	2,500	2,500
Total	2,500	2,500

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.

Flood general notes

- 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 Flood - 50 year return Period - source not available -

Exposure source Osm Buildings (Daily extracts) - Openstreetmap -

Aggregation source Mozambique Districts - DIVA GIS -

Impact Function Flood Raster On Structures Polygon