

Analysis question

In the event of a Flood, what length of Roads might be affected?

General report

Estimated length of roads affected per hazard zone

Hazard Zone	Length (m)
High	484,000
Medium	245,000
Low	98,500
Total Exposed	828,000

Roads	Length (m)
Affected	729,000
Not Affected	98,500
Not Exposed	4,783,000

- **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 length of roads (m) affected by road type

Road type	Affected			Not affected		Total not exposed	Total
	High	Medium	Total affected	Low	Total not affected		
025. railway	484,000	245,000	729,000	98,500	98,500	4,783,000	5,610,000
Total	484,000	245,000	729,000	98,500	98,500	4,783,000	5,610,000

Aggregation result

Estimated length of roads (m) affected by aggregation area

Aggregation area	025. railway	Total
Chkw	117,000	117,000
Guij	3,200	3,200
Boane	1,700	1,700
Maputo	25,100	25,100
Boane	41,500	41,500

Magude	24,400	24,400
Manhia	7,800	7,800
Matutune	6,800	6,800
Namaacha	27,500	27,500
Caia	123,000	123,000
Cheringoma	47,900	47,900
Dondo	55,600	55,600
Marromeu	16,500	16,500
Nhamatanda	98,700	98,700
Mutarara	134,000	134,000
Total	729,000	729,000

Notes and assumptions

Analysis notes

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

Road exposure general notes

- The impacts on roads, people, buildings and other exposure elements may be underestimated if the exposure data are incomplete.
- Numbers for road lengths have been rounded to the nearest 10 metres if the total is less than 1,000; nearest 100 metres if more than 1,000 and less than 100,000; and nearest 1000 metres if more than 100,000.
- Rounding is applied to all road lengths, 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.
- Roads marked as not affected may still be unusable due to network isolation. Roads marked as affected may still be usable if they are elevated above the local landscape.
- Roads are closed if they are affected.
- Roads are open if they are not affected.

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 Map - DNGRH -

Exposure source Mozambique rail - T4A -

Aggregation source Mozambique Districts - DIVA GIS -

Impact Function Flood Polygon On Roads Line