

RISK ASSESSMENT

In addition to supplying water infrastructure operational management systems and engineering services, WAMTechnology specialises in community vulnerability / risk assessments. WAMTech has conducted recent projects whereby communities across six African countries were assessed for vulnerabilities related to the supply of drinking water and public health risks related to sanitation challenges. Risk assessments are conducted in terms of a range of identified hazards including the impact on components of the infrastructure critical for water supply and public health and safety.

High precipitation - Private property select

LIKELIHOOD	SEVERITY OF IMPACT				
	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC
ALMOST CERTAIN	5	10	15	20	25
LIKELY	4	8	12	16	20
MODERATE	3	6	9	12	15
UNLIKELY	2	4	6	8	10
RARE	1	2	3	4	5
NO IMPACT	0				

- Negative Influences

Formal houses floor level same as adjacent ground level. Roofs and walls not waterproof. Water in houses.

+ Positive Influences

Likelihood actually < moderate when considering an annual rainfall of only 13 mm.

Attachments (3) view add delete

- No elevated floor level.
- Roof not waterproof.
- Walls not waterproof.

Attachments (0) view add delete

We have developed a software Risk Tool which is used to do calculations and generate analysis reports from cumulative events matrices of measured hazards associated with relevant water infrastructure age, capacity and condition; as well as operations and maintenance; floods or droughts; theft and vandalism; and socio-economic factors in order to determine a final rating – indicating the likelihood and severity of a community’s vulnerability to experience events ranging from ‘insignificant/minor’ to ‘major/catastrophic’ in terms of potable water supply and public health and safety .

