

Assess Vulnerability and Risk | Ruleset Development

WHO

This exercise is for the practitioner to complete in the Assess Vulnerability and Risk step.

WHAT

Develop rulesets for each potential impact. These will be used for the spatial assessments in the Assess Vulnerability and Risk step.

SUPPORTING RESOURCES

- Use the list of spatial assessments from [3.1 Determine Assessment Type - Worksheet](#)
- Refer to [3.3 Ruleset Library - Guidance](#) for getting the rulesets started
- [2.10 Community Asset Types and Spatial Data - Worksheet](#) can be used for identifying the high criticality tags for sensitivity rulesets.

INSTRUCTIONS

- Using the guidance from [3.3 Ruleset Library - Guidance](#) and the list of spatial assessments from [3.1 Determine Assessment Type - Worksheet](#), begin crafting rulesets for each Potential Impact.
- Focus first on assessing vulnerability by brainstorming rulesets for sensitivity and adaptive capacity. Use one table per Potential Impact
- Move on to assessing risk by considering probability and magnitude of impact. Use one table per Potential Impact.
- Make additional copies of the tables as-needed.

What are rulesets?

To assess different levels of vulnerability and risk, rulesets, or criteria, are developed. Each component of the assessment framework (adaptive capacity, magnitude of impact) considers a different aspect of how community assets might be affected by hazards.

Exercise: Sensitivity and Adaptive Capacity Rulesets

Potential Impact:		
	Sensitivity	Adaptive Capacity
Low		
Medium		
High		

Potential Impact:		
	Sensitivity	Adaptive Capacity
Low		
Medium		
High		

Potential Impact:		
	Sensitivity	Adaptive Capacity
Low		
Medium		
High		

Potential Impact:		
	Sensitivity	Adaptive Capacity
Low		
Medium		
High		

Potential Impact:		
	Sensitivity	Adaptive Capacity
Low		
Medium		
High		

Potential Impact:		
	Sensitivity	Adaptive Capacity
Low		
Medium		
High		

Exercise: Probability and Magnitude of Impact Rulesets

Potential Impact:		
	Probability	Magnitude of Impact
Low		
Medium		
High		

Potential Impact:		
	Probability	Magnitude of Impact
Low		
Medium		
High		

Potential Impact:		
	Probability	Magnitude of Impact
Low		
Medium		
High		

Potential Impact:		
	Probability	Magnitude of Impact
Low		
Medium		
High		

Potential Impact:		
	Probability	Magnitude of Impact
Low		
Medium		
High		

Potential Impact:		
	Probability	Magnitude of Impact
Low		
Medium		
High		

IMPLEMENTATION EXAMPLES

Develop rulesets for assessing vulnerability and risk

- Rulesets used in the [City of Tallahassee Resilience Plan](#) are discussed in the report appendix.
- The appendix in [Growing Stronger Toward a Climate-ready Philadelphia](#) provides details on metrics and information used for assessing vulnerability and risk in the City.
- A breakdown of the rulesets used in the [City of Charleston All Hazards Vulnerability Assessment](#) appear in Appendix C.