

Understand Exposure | Potential Impacts Matrix

WHO

This exercise is for the practitioner and core team to complete in the Understand Exposure step.

WHAT

This exercise will apply what was learned and recorded from examining hazards and stressors earlier in Step 1. Use that information, as well as existing knowledge about community assets and recent/ past events, to complete the [potential impacts matrix](#). This will ultimately help identify what impact pairs will be assessed in the Assess Vulnerability and Risk step.

SUPPORTING RESOURCES

- Hazards and Stressors responses recorded in [2.5 Evaluate Hazards and Stressors - Worksheet](#)
- Community asset themes delineated in [2.3 Community Asset Themes - Worksheet](#)

INSTRUCTIONS

- Read and consider the [key questions](#) below with what you learned from the [2.5 Evaluate Hazards and Stressors - Worksheet](#) exercise.
- Using the [potential impacts matrix template](#) below, fill in the community asset themes and the hazards and stressors.
- Place an “x” in the space where it’s agreed the hazard or stressor will have an impact on that community asset.
- Make a list of the [impact pairs in the matrix](#). This list will be used to inform what spatial data needs to be collected at the end of the Understand Exposure step and what will be assessed in the Assess Vulnerability and Risk step.

Key Questions

1. Consider the rate of change of the hazards and stressors. Will any of these changes cause an increased impact on the things the community cares about (i.e., community assets)?
2. Is your community resilient to these hazards? (based on past events and possible future)

Example Potential Impacts Matrix

Community Assets	Hazards			
	Flooding	Landslides	Wildfire	Extreme Heat
City-owned facilities	X	X		X
Commercial properties	X	X	X	
Residential properties	X	X	X	
Critical facilities		X	X	X

Impact Pairs

Flooding/City-owned facilities

Flooding/Commercial Properties

Flooding/Residential Properties

Landslides/City-owned facilities

Landslides/Commercial properties

Landslides/Residential Properties

Landslides/Critical Facilities

Wildfire/Commercial Properties

Wildfire/Residential Properties

Wildfire/Critical Facilities

Extreme Heat/City-owned Facilities

Extreme Heat/Critical Facilities

Potential Impacts Matrix

Community Assets	Hazards					

Impact Pairs

- Type here

IMPLEMENTATION EXAMPLES

Document potential impacts through an exposure matrix

- Chapter 5 of the [North Carolina Climate Risk Assessment and Resilience Plan](#) begins by highlighting the number of impact pairs and risk assessments for each sector. Following this table are sections for each sector with a detailed exposure matrix.
- Potential impacts for the [Southeast Palm Beach County Coastal Resilience Partnership](#) are described in table 1-4. In this report, the Partnership describes these as “Asset-Threat Pairs” and denotes what kind of assessment (spatial or narrative) should be completed for each. Assessment types are described in Step 2.