

Vulnerability Mapping Worksheet



1. Asset or System Being Assessed (pick one per worksheet)

Examples:

- Transportation corridor
- Substation / utility facility
- Neighborhood / block group
- Pump station / stormwater asset
- Senior housing complex
- Healthcare, school, or community facility

Asset / System Name	Location / Service Area	Notes

2. Social Vulnerability Indicators

Who is impacted by vulnerability in this asset or system? (Check all that apply & add notes. Use County Vulnerability Assessment, ACS data, or local knowledge.)

Demographic Indicators:

- ☐ Low-income households
- ☐ Seniors (65+) living alone
- ☐ Young children (0–5)
- ☐ People with disabilities
- ☐ Renters / housing instability
- ☐ No/limited access to vehicles
- ☐ Linguistic isolation
- ☐ Communities of color
- ☐ Health vulnerabilities (asthma, chronic illness, heat sensitivity)

Community Notes:

3. Physical Vulnerability Indicators

What physical impacts result from vulnerability in this asset or system? (Check all that apply & note specific concerns.)

Exposure to Hazards:

- ☐ Flood-prone area
- ☐ Poor drainage / localized flooding
- ☐ Heat island / low tree canopy
- ☐ High wind / tornado exposure
- ☐ Proximity to highways / emissions sources
- ☐ Aging infrastructure
- ☐ Overcapacity stormwater system
- ☐ Utility outage history
- ☐ Poor building condition or code issues

Asset Notes:

4. Overlap Assessment (Social + Physical Vulnerability)

Instructions: Where do demographic and physical vulnerabilities intersect?

Describe the combined risk level.

- **High Overlap Areas:**
- **Moderate Overlap Areas:**
- **Low or No Overlap:**

Summary of Combined Vulnerability:

5. Priority Level

Based on combined vulnerability + importance of the asset.

Select one:

- ☐ **High Priority** – Immediate action needed
- ☐ **Medium Priority** – Action recommended soon
- ☐ **Low Priority** – Monitor or address as part of other projects

Reason for Priority Rating:

6. Recommended Interventions

(Select the actions that fit the vulnerabilities you identified.)

Possible Interventions:

- ☐ Increase tree canopy & shade
- ☐ Stormwater upgrades / green infrastructure
- ☐ Elevate or floodproof critical infrastructure
- ☐ Building retrofits (efficiency, backup power)
- ☐ Cooling centers / resilience hubs
- ☐ Emergency transportation supports
- ☐ Hazard signage or early warning systems

- ☐ Community outreach or preparedness campaigns
- ☐ Partnerships with nonprofits, schools, utilities
- ☐ Land use / zoning changes to reduce exposure

Tailored Interventions for This Asset:

7. Next Steps & Partners

Who needs to be involved? What resources are needed?

Key Partners:

Funding or Programs to Explore:

Immediate Next Steps:

