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# **Florida Kidney Disaster Coalition**

## *Hazard Vulnerability Analysis*

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A hazard vulnerability assessment is usually the first step in emergency planning for an organization. The Hazard Vulnerability Analysis tool is designed so organizations can evaluate their level of risk and preparedness for a variety of hazardous events. The tool lists possible hazards that would require disaster planning and can be individually tailored to suit the needs of the organization. Included in this document are instructions on how to use the tool to develop a disaster plan unique to your organization.

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# Hazard Vulnerability Analysis Instructions

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1. List potential hazardous events for your organization.
2. Evaluate and rate each event for probability, vulnerability and preparedness using a three level scale from high to low:
  - To rank **probability** and **vulnerability**:
    - **High = 3**
    - **Moderate = 2**
    - **Low = 1**
  - To rank **preparedness**, use the converse:
    - **High = 1**
    - **Moderate = 2**
    - **Low = 3**
3. Multiply the ratings for each event in the area of probability, vulnerability and preparedness. The total values with the **higher scores** will represent the events **most in need of organization planning for emergency preparedness**.
  - Using this method, 1 is the lowest possible score, while 27 is the highest possible score.
4. Based on the results, determine which values represent an acceptable risk level and which values require additional planning and preparation.

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## Helpful Tips

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- When evaluating probability, consider the frequency and likelihood an event may occur.
- When evaluating vulnerability, consider the degree with which the organization will be impacted, such as infrastructure damage, loss of life, service disruption, etc.
- When evaluating preparedness consider elements such as the strength of your preparedness plans and the organization's previous experience with the hazardous event.
- Remember: The scale for preparedness is in reverse order from probability and vulnerability.

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## *Potential Hazards*

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### **Natural Disasters**

- Hurricanes
- Tornadoes
- Heavy thunder storms
- Flash flooding
- Flooding
- Mud/rock slides
- High winds
- Hail
- Severe winter weather
- Avalanche
- Extreme high heat
- Drought
- Wildfire
- Earthquake
- Volcano eruption
- Tidal wave/Tsunami

### **Man-made Disasters**

- War (conventional, biological, chemical or nuclear)
- Toxic material emission/spill (from a train or nearby plant)
- Riot or other civil disorder
- Nuclear plant melt down or other nuclear disaster
- Terrorism
- Fire

### **Technological Failures**

- Electrical
- Communications
- IT system
- Heating/cooling

## **Other**

- Disease outbreak
- Community infrastructure breakdown (bridges collapse, Dam breaks, etc.)
- Utility failure
- Transportation failure

Event	Probability			Level of vulnerability /Degree of disruption			Preparedness			Score
	High (3)	Moderate (2)	Low (1)	High (3)	Moderate (2)	Low (1)	High (1)	Moderate (2)	Low (3)	
Ice/Snow										
Flooding										
Earthquake										
Hurricane										
Hazardous Material Accident										
Fire										
Tornado										
Volcano										
Civil Disturbance										
Mass Causality Event										
Terrorist Attacks										
Pandemic/Infectious Disease										
Electrical Failure										
Communications Failure										
Information System Failure										
Water Failure										
Transportation Interruption										
Environmental/ Altered Air Quality Pollution										