

**UPPER CUMBERLAND HOSPITAL REGION  
HAZARD AND VULNERABILITY ASSESSMENT TOOL  
NATURALLY OCCURRING EVENTS**

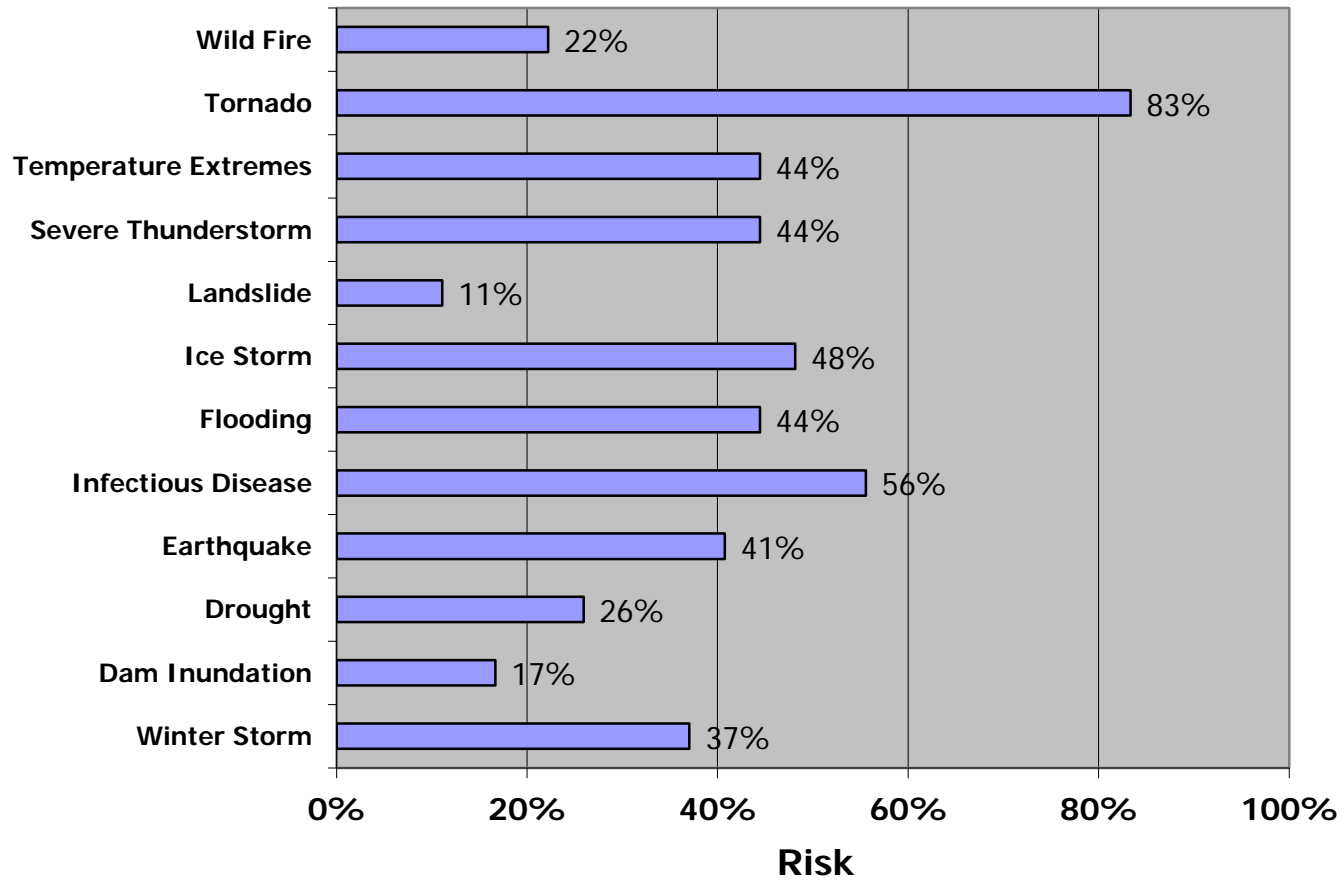


EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Winter Storm	2	2	1	3	1	2	1	<b>37%</b>
Dam Inundation	1	2	1	2	2	1	1	<b>17%</b>
Drought	2	1	2	1	1	1	1	<b>26%</b>
Earthquake	2	3	2	2	2	1	1	<b>41%</b>
Infectious Disease	3	3	1	2	1	2	1	<b>56%</b>
Flooding	2	2	2	2	2	2	2	<b>44%</b>
Ice Storm	2	2	2	3	2	2	2	<b>48%</b>
Landslide	1	1	1	1	1	1	1	<b>11%</b>
Severe Thunderstorm	3	1	1	2	1	2	1	<b>44%</b>
Temperature Extremes	2	2	2	2	2	2	2	<b>44%</b>
Tornado	3	3	3	3	2	2	2	<b>83%</b>
Wild Fire	1	2	2	2	2	2	2	<b>22%</b>
<b>AVERAGE SCORE</b>	<b>2.00</b>	<b>2.00</b>	<b>1.67</b>	<b>2.08</b>	<b>1.58</b>	<b>1.67</b>	<b>1.42</b>	<b>39%</b>

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>		
<b>0.39</b>	<b>0.67</b>	<b>0.58</b>

## Natural Hazards



**UPPER CUMBERLAND HOSPITAL REGION  
HAZARD AND VULNERABILITY ASSESSMENT TOOL  
TECHNOLOGIC EVENTS**

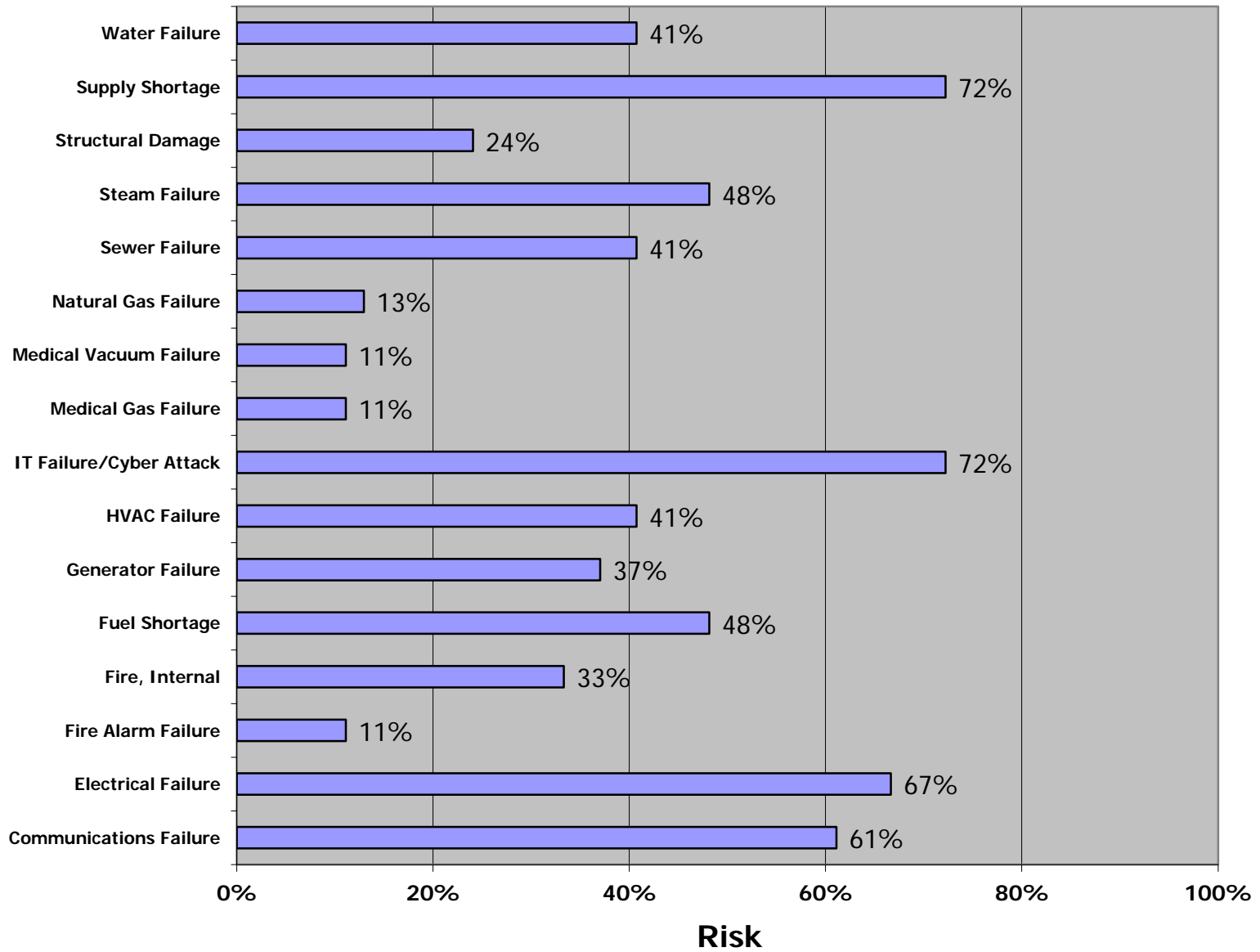


EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Communications Failure	3	1	1	3	2	2	2	61%
Electrical Failure	3	1	2	3	2	2	2	67%
Fire Alarm Failure	1	1	1	1	1	1	1	11%
Fire, Internal	2	2	2	2	1	1	1	33%
Fuel Shortage	2	1	3	3	2	2	2	48%
Generator Failure	2	2	2	3	1	1	1	37%
HVAC Failure	2	2	2	3	2	1	1	41%
IT Failure/Cyber Attack	3	2	1	3	2	2	3	72%
Medical Gas Failure	1	1	1	1	1	1	1	11%
Medical Vacuum Failure	1	1	1	1	1	1	1	11%
Natural Gas Failure	1	1	1	2	1	1	1	13%
Sewer Failure	2	1	2	2	2	2	2	41%
Steam Failure	2	2	2	3	2	2	2	48%
Structural Damage	1	2	3	2	2	2	2	24%
Supply Shortage	3	2	1	3	2	2	3	72%
Water Failure	2	1	2	3	2	2	1	41%
<b>AVERAGE SCORE</b>	<b>1.94</b>	<b>1.21</b>	<b>1.69</b>	<b>2.38</b>	<b>1.63</b>	<b>1.56</b>	<b>1.63</b>	<b>37%</b>

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>
<b>0.37                  0.65                  0.57</b>

# Technological Hazards



**UPPER CUMBERLAND HOSPITAL REGION  
HAZARD AND VULNERABILITY ASSESSMENT TOOL  
HUMAN RELATED EVENTS**



EVENT	PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		HUMAN IMPACT	PROPERTY IMPACT	BUSINESS IMPACT	PREPAREDNESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	<i>Likelihood this will occur</i>	<i>Possibility of death or injury</i>	<i>Physical losses and damages</i>	<i>Interruption of services</i>	<i>Preplanning</i>	<i>Time, effectiveness, resources</i>	<i>Community/ Mutual Aid staff and supplies</i>	<i>Relative threat*</i>
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 - 100%
Aircraft Incident	2	2	1	2	2	1	1	33%
Bomb Threat/Susp Package	2	2	1	2	3	2	2	44%
Civil Disturbance	2	2	2	2	2	2	2	44%
Forensic Admission	3	1	1	1	2	1	1	39%
Hostage Situation	2	2	1	3	3	2	2	48%
Infant/Child Abduction	1	2	1	3	2	2	1	20%
Mass Casualty Incident (trauma)	3	3	1	3	2	3	3	83%
Railroad Incident	1	2	1	2	2	2	3	22%
VIP Situation	1	1	1	2	1	1	1	13%
Workplace Violence	2	3	1	3	2	3	3	56%
Radiological Exposure	1	2	1	2	2	2	2	20%
Chemical Exposure	2	3	1	2	2	3	3	52%
Mass Casualty Hazmat Incident (>= 5 victims)	1	2	1	2	2	2	2	20%
Small Casualty Hazmat Incident (< 5 victims)	2	2	1	1	1	1	1	26%
Terrorism, CBRNE Event	1	3	1	2	1	1	1	17%
<b>AVERAGE</b>	<b>1.73</b>	<b>2.13</b>	<b>1.07</b>	<b>2.13</b>	<b>1.93</b>	<b>1.87</b>	<b>1.87</b>	<b>31%</b>

\*Threat increases with percentage.

<b>RISK = PROBABILITY * SEVERITY</b>		
<b>0.31</b>	<b>0.54</b>	<b>0.57</b>

# Human Hazards

