



HAZARD AND VULNERABILITY ASSESSMENT TOOL NATURALLY OCCURRING EVENTS



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EVENT	1. PROBABILITY <i>Likelihood this will occur</i>	SEVERITY = (MAGNITUDE - MITIGATION)						RISK <i>Relative threat*</i>
		2. HUMAN IMPACT	3. PROPERTY IMPACT	4. COMMUNITY IMPACT	5. REGIONAL PREPAREDNESS	6. REGIONAL RESPONSE	7. EXTERNAL RESPONSE	
		<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>	
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%
Hurricane	2	2	3	2	2	2	2	48%
Tornado	2	1	1	1	2	1	1	26%
Severe Thunderstorm	3	1	2	2	2	1	1	50%
Heavy Snow, Blizzard	3	1	3	3	1	2	2	67%
Ice Storm	3	2	3	3	2	2	2	78%
Damaging Earthquake	1	1	2	2	3	2	2	22%
Tsunami	0	0	0	0	0	0	0	0%
Heat Wave	3	2	0	1	2	2	1	44%
Drought	2	1	2	2	3	3	2	48%
Flood	3	1	3	3	1	1	1	56%
Wild Fire	3	1	1	1	1	1	1	33%
Landslide	1	1	1	1	1	1	1	11%
Dam Inundation	1	3	3	3	3	3	1	30%
Pandemic/Epidemic	2	3	1	3	1	1	1	37%
Lightning	3	1	1	1	2	2	2	50%
Urban Fires	3	1	1	1	2	1	1	39%
AVERAGE SCORE	2.19	1.38	1.69	1.81	1.75	1.56	1.31	38%

*Threat increases with percentage.

RISK = PROBABILITY * SEVERITY		
0.38	0.73	0.53

25-Jun-15



HAZARD AND VULNERABILITY ASSESSMENT TOOL TECHNOLOGIC EVENTS



EVENT	SEVERITY = (MAGNITUDE - MITIGATION)							RISK
	1. PROBABILITY	2. HUMAN IMPACT	3. PROPERTY IMPACT	4. COMMUNITY IMPACT	5. REGIONAL PREPAREDNESS	6. REGIONAL RESPONSE	7. 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>	
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%
Major Power Outage	3	3	2	3	1	1	1	61%
Fuel Shortage	2	1	2	3	3	3	3	56%
Major Transportation Disruption	2	1	2	3	3	3	2	52%
Water Supply Contamination	3	1	1	2	2	1	1	44%
Food Contamination	3	1	1	2	1	1	1	39%
Major Communications Disruption	3	1	1	3	2	2	2	61%
Information Systems Failure	3	1	1	3	2	2	2	61%
Supply Disruption / Shortage	3	1	1	2	2	2	3	61%
Major Infrastructure Damage	3	1	3	3	3	2	2	78%
Cyber Attack	3	1	3	3	3	3	3	89%
AVERAGE SCORE	1.47	0.63	0.89	1.42	1.16	1.05	1.05	17%

*Threat increases with percentage.

RISK = PROBABILITY * SEVERITY		
0.17	0.49	0.35

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HAZARD AND VULNERABILITY ASSESSMENT TOOL HUMAN RELATED EVENTS



EVENT	1. PROBABILITY	SEVERITY = (MAGNITUDE - MITIGATION)						RISK
		2. HUMAN IMPACT	3. PROPERTY IMPACT	4. COMMUNITY IMPACT	5. REGIONAL PREPAREDNESS	6. REGIONAL RESPONSE	7. EXTERNAL RESPONSE	
	Likelihood this will occur	Possibility of death or injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/Mutual Aid staff and supplies	Relative threat*
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%
Mass Casualty Incident	3	1	1	3	2	2	2	61%
Significant Bombing/Explosion	1	1	1	3	2	2	2	20%
Significant Civil Disturbance	2	1	1	2	3	3	3	48%
Large Public Events	3	1	1	1	1	1	1	33%
Mass Fatality Situation	1	1	1	3	3	3	3	26%
AVERAGE	1.00	0.50	0.50	1.20	1.10	1.10	1.10	11%

*Threat increases with percentage.

RISK = PROBABILITY * SEVERITY		
0.11	0.33	0.34

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HAZARD AND VULNERABILITY ASSESSMENT TOOL EVENTS INVOLVING HAZARDOUS MATERIALS



EVENT	1. PROBABILITY <i>Likelihood this will occur</i>	SEVERITY = (MAGNITUDE - MITIGATION)						RISK <i>Relative threat*</i>
		2. HUMAN IMPACT <i>Possibility of death or injury</i>	3. PROPERTY IMPACT <i>Physical losses and damages</i>	4. COMMUNITY IMPACT <i>Interruption of services</i>	5. REGIONAL PREPAREDNESS <i>Preplanning</i>	6. REGIONAL RESPONSE <i>Time, effectiveness, resources</i>	7. EXTERNAL RESPONSE <i>Community/Mutual Aid staff and supplies</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%
Major Hazmat Incident	3	2	2	3	3	3	3	89%
Major Chemical/ Radiological/Biological Exposure-Caused by Terrorism	1	2	2	3	3	3	3	30%
Nuclear Detonation	0	3	3	3	3	3	3	0%
AVERAGE	0.44	0.78	0.78	1.00	1.00	1.00	1.00	5%

*Threat increases with percentage.

RISK = PROBABILITY * SEVERITY		
0.05	0.15	0.31

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