

Risk Factor Calculation

$$\text{Risk Factor} = \text{Probability} \times 0.30 + \text{Impact} \times 0.30 + \text{Spatial Extent} \times 0.20 + \text{Warning Time} \times 0.10 + \text{Duration} \times 0.10$$

Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	Risk Factor
Flood, Flash Flood, and Ice Jams	4	4	4	3	4	3.900
Severe Wind Storm	4	1	4	3	4	3.000
Environmental Hazards	4	2	2	4	3	2.900
Transportation Hazards	4	2	2	4	2	2.800
Severe Winter Storm	1	3	4	1	4	2.500
Volcano	1	4	2	1	4	2.400
Avalanche/Glacier	1	4	2	1	4	2.400
Tornado/Water Spout	2	2	3	4	1	2.300
Extreme Temperatures	2	1	4	1	3	2.100
Explosion/ Urban Fire	2	2	1	4	2	2.000
Utility Interruption Hazards	2	1	2	4	3	2.000
Dam or Levee Failure	1	2	2	4	3	2.000
Lightning	4	1	1	1	1	1.900
Drought	1	1	4	1	4	1.900
Nuclear Incidents	1	2	1	4	4	1.900
Animal/Insect Infestation	1	1	4	1	4	1.900
Building or Structure Collapse	1	2	1	4	3	1.800
Wildfire	1	2	1	4	2	1.700
Tsunami	1	2	1	4	2	1.700
Terrorism, War, and Criminal Activity	1	2	1	4	1	1.600
Landslide	1	1	1	4	4	1.600
Land Subsidence, Sinkholes	1	1	1	4	4	1.600
Drowning	2	1	1	4	1	1.600
Hailstorm	1	2	1	3	1	1.500
Civil Disturbance	1	1	1	4	2	1.400
Tropical Cyclone/ Hurricane/ Nor'easters/ Coastal Storms	1	2	1	1	2	1.400
Dust/Sand Storm	1	1	1	4	1	1.300
Earthquake	1	1	1	4	1	1.300
Disorientation	1	1	1	4	1	1.300
Radon Exposure	1	1	1	4	1	1.300
Disease/Epidemic	1	1	1	1	4	1.300
Coastal Erosion	1	1	1	1	4	1.300
Expansive Soils	1	1	1	1	4	1.300