

Risk Assessment Worksheet

This worksheet considers many variables to facilitate the priority-ranking of risks or threats. To use this worksheet, list your risks on the left and use the formula as indicated in the column headings to form the relative relation to all other risks. Trust your own best judgment for your department's or facility's set of risks. View the results of the computed relative weight for each of the threats and consider mitigation for the most probable risks that have the greatest impact. This threat/vulnerability chart depicts risk, probability, and impact using a relative comparison method.

The calculation is: **Probability** multiplied by the sum of the four **Threat Factors** multiplied by the **Impact** gives the **Relative Weight**.

*The higher the **Relative Weight**, the more critical it is to have mitigation strategies.*

THREAT OR TRIGGER	Probability	Threat Factors				Impact	Relative Weight
		(Onset Speed	+ Forewarning	+ Duration	+ Intensity)		
Tornado (varies by location)	3	1	2	1	2	3	54
Mainframe Hardware Failure/Malfunction	2	2	2	2	2	3	48
Power Failure	3	2	2	1	1	2	36
Flood (varies by location)	2	1	1	2	2	3	36
Hurricane (varies by location)	2	1	1	2	2	3	36
Ice or Snow Storm (varies by location)	2	2	1	2	2	2	28
Lightning Strike (varies by location)	2	2	2	1	2	2	28
Mainframe Software Failure/Malfunction	2	2	2	1	2	2	28
Earthquake	1	2	2	1	2	3	21
Core Systems Failure (Alltel, SDM)	1	2	2	2	2	2	16
Bomb Threat	2	2	2	1	2	1	14
Imaging Systems Failure	1	2	2	2	1	2	14
Explosion	1	2	2	1	2	2	14
Fire	1	2	2	1	2	2	14
Radiation Leak	1	2	1	2	2	2	14
Human Sabotage	1	1	1	1	1	2	8
Loss of Key Person	1	1	1	1	1	2	8
LAN Outage	1	2	2	2	1	1	7
Branch Failure (Teller Systems)	1	1	2	2	2	1	7
HAZMAT Chemical Spill	1	2	1	2	2	1	7

Definitions	Values	Description
Probability	1=Low 2=Medium 3=High	The relative likelihood that the event will happen.
Onset Speed	1=Slow 2=Fast	The length of time between first warning and onset of the event.
Forewarning	1=Sufficient 2=insufficient	Is the first warning soon enough to allow taking mitigating steps?
Duration	1=Short 2=Long	The expected duration of the event (not it's aftermath).
Intensity	1=Low 2=High	The level of intensity that will be imposed during the event.
Impact	1=Low 2=Medium 3=High	The impact that is likely to follow as a consequence of the event.