

Hazard & Risk Assessment
Probability and Severity Metrics

I. Probability Metric

1. Consider the number of occurrences on your campus over the past 25 years, the number of similar events at other Universities, and any changes or trends that could affect the frequency of this event on your campus.

Estimate the likelihood this event will occur in next 25 years.

1. Not applicable (will not occur)
2. Doubtful (not likely)
3. Possible (could occur)
4. Probable (very likely to occur)
5. Inevitable (will occur)

II. Severity Metrics

A. Human Impact

1. If this event has occurred in the past on your campus, what were the extent of injuries and deaths that occurred?

1. None, or this event has never occurred on campus
2. Few minor injuries
3. Multiple minor injuries or a major injury
4. Multiple major injuries or a death
5. Multiple deaths and major injuries

2. Consider the potential for injuries or deaths from this event on your campus or from similar events at other universities, and any changes or trends that would affect future injuries and deaths from this type of event.

Estimate the number of injuries and deaths that could result from this event:

1. None
2. Few minor injuries
3. Multiple minor injuries or possible major injury
4. Multiple major injuries or possible death
5. Multiple deaths and major injuries

B. Facilities Impact

1. Consider the vulnerability of your central campus facilities to this event. (See the attached page for a list of typical campus facilities.)

Estimate the extent of damage to campus-wide facilities:

1. Little or no damage
 2. Mild damage to several facilities
 3. Moderate damage to multiple facilities
 4. Severe damage to multiple facilities
 5. Extensive damage to most facilities
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2. Considering the extent of damage to central campus facilities, estimate the total cost to respond to the event and repair or replace all damaged facilities:
 1. Less than \$1 million
 2. Between \$1 million and \$10 million
 3. Between \$10 million and \$100 million
 4. Between \$100 million and \$1 billion
 5. More than \$1 billion

C. Institutional Impact

1. If this event occurred on your campus, estimate the duration of interruption to campus-wide teaching and research activities, and business operations:
 1. Hours
 2. Days
 3. Weeks
 4. Months
 5. Year or longer

2. To what extent would this event negatively impact the campus reputation or public image over the long term?
 1. None
 2. Minor
 3. Moderate
 4. Significant
 5. Severe

Central Campus Facilities

1. Lab Research buildings
2. General Classroom buildings
3. Large auditorium/lecture halls
4. Main Library and branch libraries
5. Animal care/vivarium facilities
6. Agricultural/crop operations
7. Residence halls and Dining halls
8. Student Healthcare facility
9. Central Administration building
10. Public Safety building(s)
11. Central IT data center
12. Central telecomms switching facility
13. CoGen/Steam plant
14. Electrical substation(s)
15. Utility systems (water-sewer/power-gas systems)
16. Bulk fuel/gas/water storage tanks/facilities
17. Hazardous waste handling facility
18. Roadways/bridges/tunnels
19. Performing arts center
20. Sports stadium