

Incident Frequency & Risk Benchmarks by Environment

Comparative analysis across
high-traffic physical environments

Prepared for Enterprise Risk, Operations, and Insurance Stakeholders

Sources: CDC, NFSI, NSC, BLS

March 2026

1. Executive Summary

Operational incidents occur across all physical environments, but their frequency and characteristics vary significantly based on traffic, layout, and usage patterns.

Understanding how risk differs across environments provides critical insight into exposure and operational requirements.

"Incident frequency and characteristics vary significantly based on traffic, layout, and usage patterns."

2. Environment Overview

Each environment presents distinct operational dynamics:

- Retail and warehouse environments involve large surface areas and product handling
- Grocery environments introduce liquids and perishables
- Stadiums concentrate high-density crowds
- Airports operate continuous movement systems
- Hospitality environments introduce variable conditions

3. Incident Frequency Drivers

Incidents are typically driven by:

- Foot traffic volume
- Environmental conditions
- Operational complexity
- Customer behavior

4. Comparative Risk Table

Environment	Risk Level	Key Drivers
Retail Warehouse	Moderate	Spills, dropped goods
Grocery	High	Liquids, perishables
Stadiums	Moderate–High	Alcohol, crowd density
Airports	High	Continuous traffic
Hospitality	Moderate	Pools, restrooms

5. Exposure Patterns

Environment	Frequency	Severity	Exposure Pattern
Grocery	High	Moderate	Frequent incidents
Airport	High	High	Continuous exposure
Stadium	Moderate	High	Event-driven spikes
Retail	Moderate	Moderate	Scaled exposure
Hospitality	Moderate	Moderate	Variable conditions

6. Operational Observations

Higher traffic environments tend to:

- Experience more frequent incidents
- Require faster detection and response
- Generate greater cumulative exposure

7. Operational Insight

Risk is not evenly distributed across environments.

It is concentrated in:

- High-traffic zones
- High-variability environments
- Areas with limited visibility

"Risk is concentrated in high-traffic zones, high-variability environments, and areas with limited visibility."

Sources

Centers for Disease Control and Prevention (CDC)

National Floor Safety Institute (NFSI)

National Safety Council (NSC)

Bureau of Labor Statistics (BLS)

This report was prepared for informational purposes. All statistics are drawn from publicly available data published by the organizations cited above. This document does not constitute legal, insurance, or financial advice. Organizations should consult their risk management and legal advisors for facility-specific guidance.