



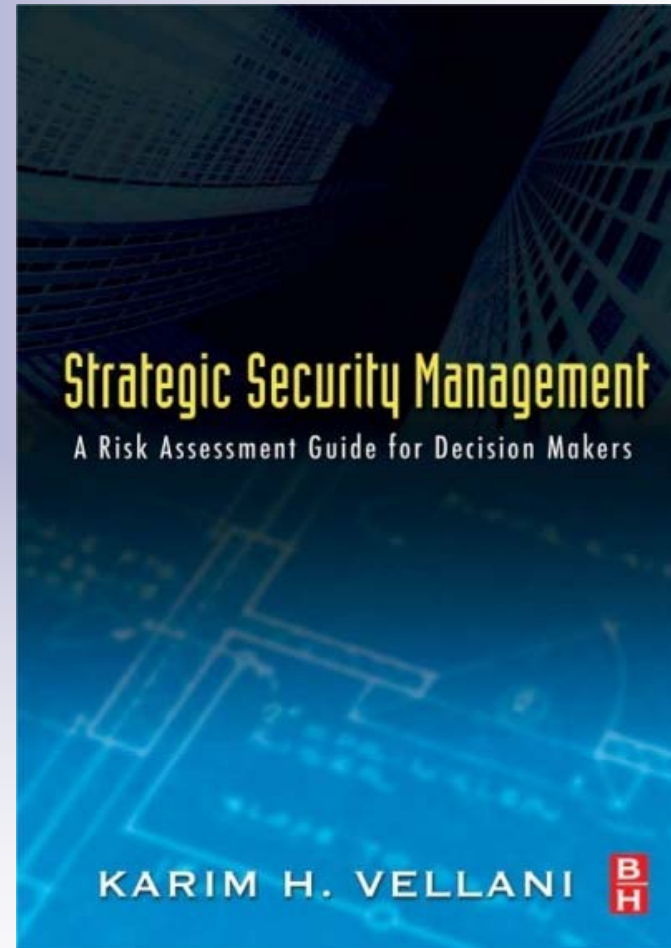
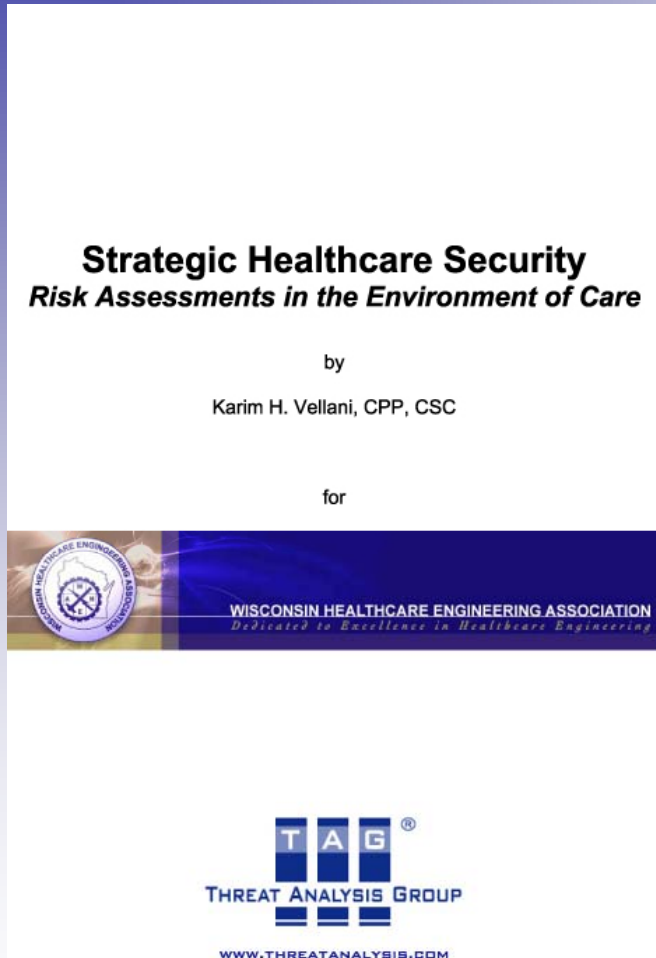
WISCONSIN HEALTHCARE ENGINEERING ASSOCIATION
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Risk Assessments in the Environment of Care

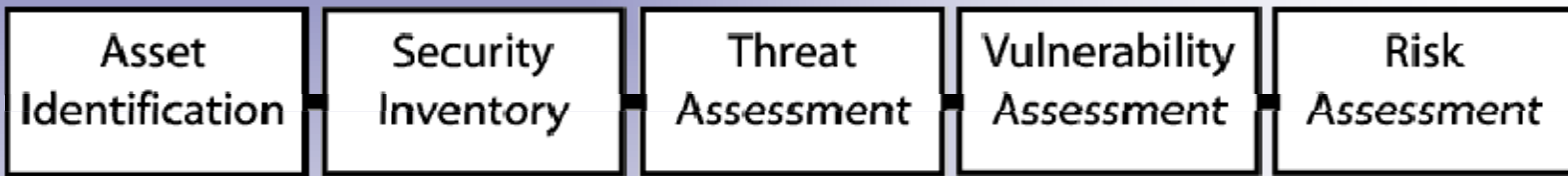
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Sources



Risk Assessment Process



Definitions

- Asset
- Security Inventory
- Threat
- Vulnerability
- Risk

Qualitative Risk Formula

$$\begin{aligned} &\text{Threat} \\ &+ \\ &\text{Vulnerability} \\ &= \\ &\text{Risk} \end{aligned}$$

Asset Identification



- Identifying Critical Assets
- Consequence Analysis

Security Inventory

- Policies & Procedures
- Physical Security Measures
- Security Personnel



Threat Assessment

- Crime Analysis
- Internal Records
- Informal Liaisons

Types of Threats

Inherent Threats

Threats that exist by virtue of the inherent nature or characteristics of the facility or nature of the operation. For example, certain types of facilities or assets may be a crime magnet or prone to loss, damage or destruction (e.g., infant abductions from hospital nurseries).

Types of Threats

Conceptual Threats

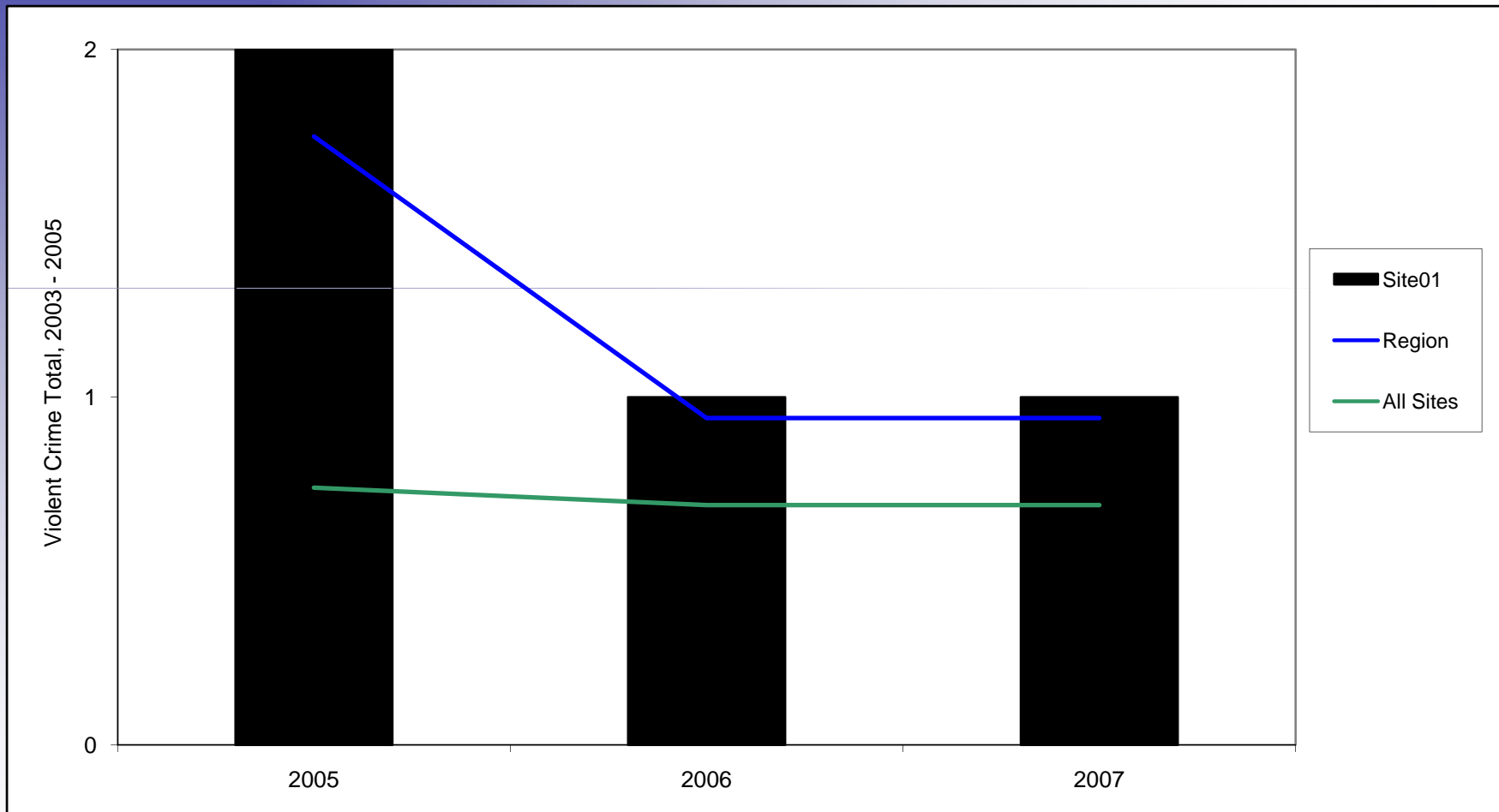
Threats which exist by virtue of vulnerabilities around the asset or weaknesses in the security program which produce opportunities for crime to occur.

Types of Threats

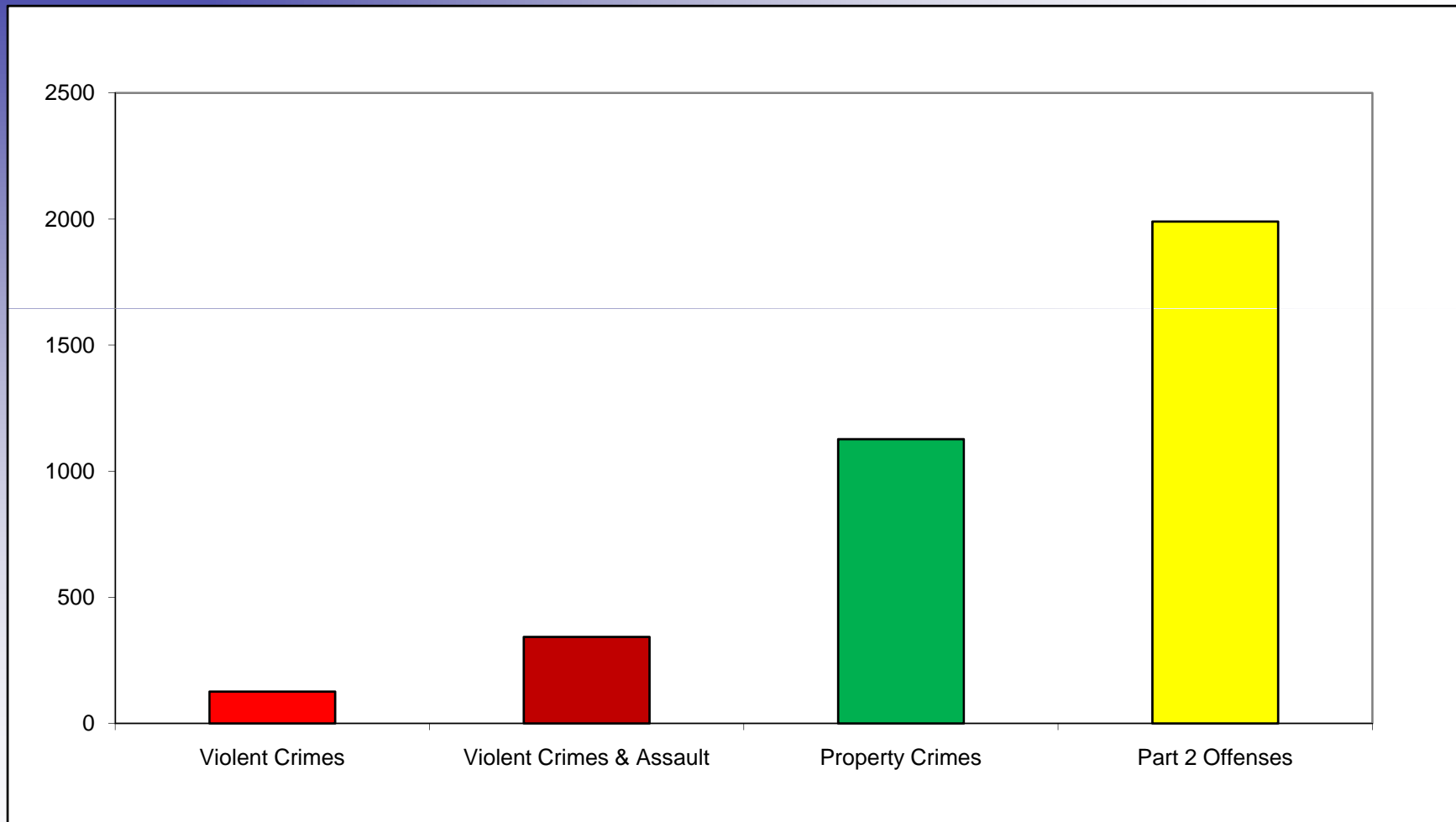
Actual Threats

- a. The crime history against an asset or at a facility where the asset is located. Actual threats are a quantitative element of a threat assessment.
- b. Relevant crimes on the premises (three to five years prior to the date of the incident)
- c. Relevant crimes in the immediate vicinity of the facility (three to five years prior to the date of the incident)

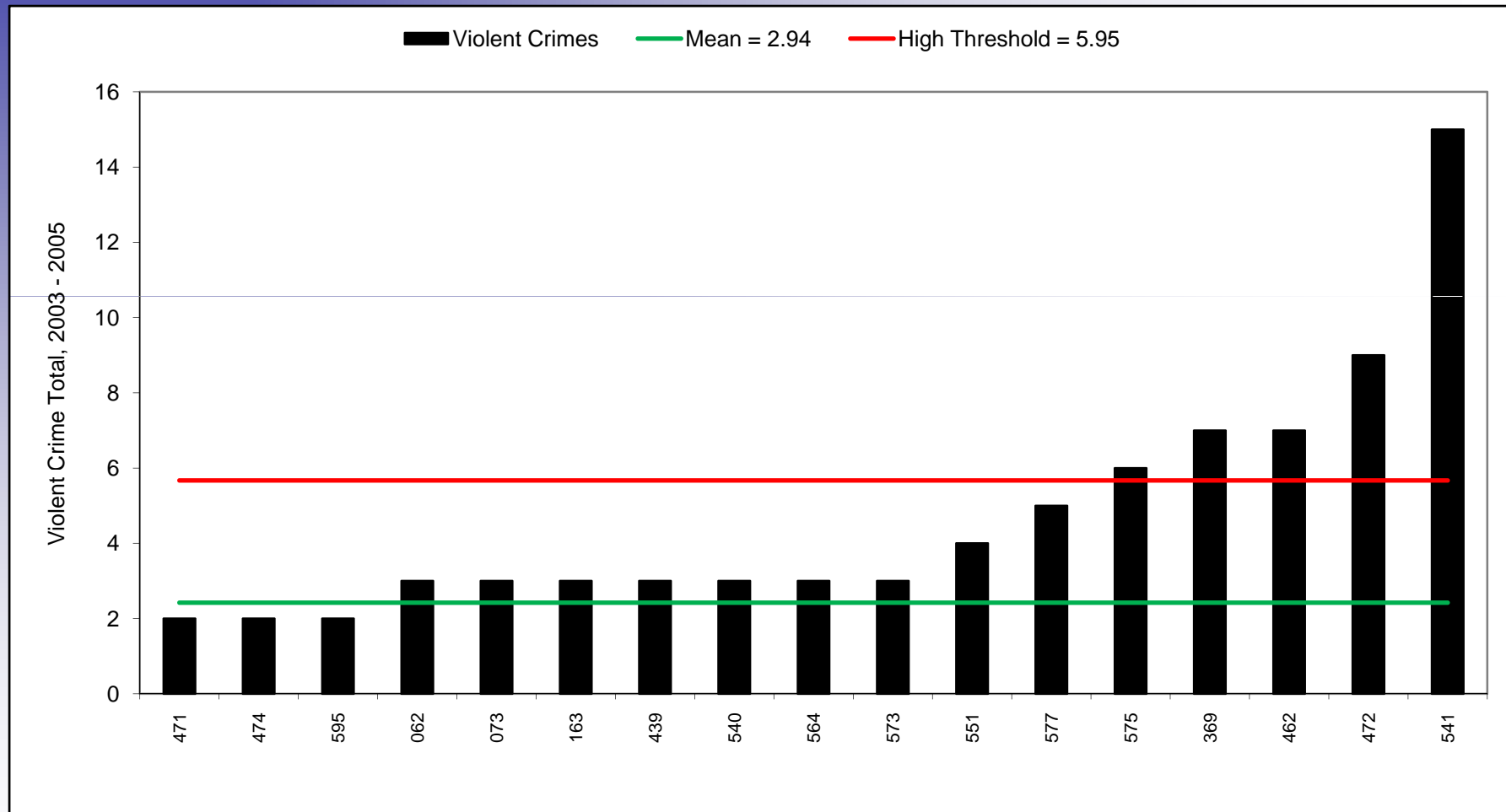
Violent Crime Trend by Year



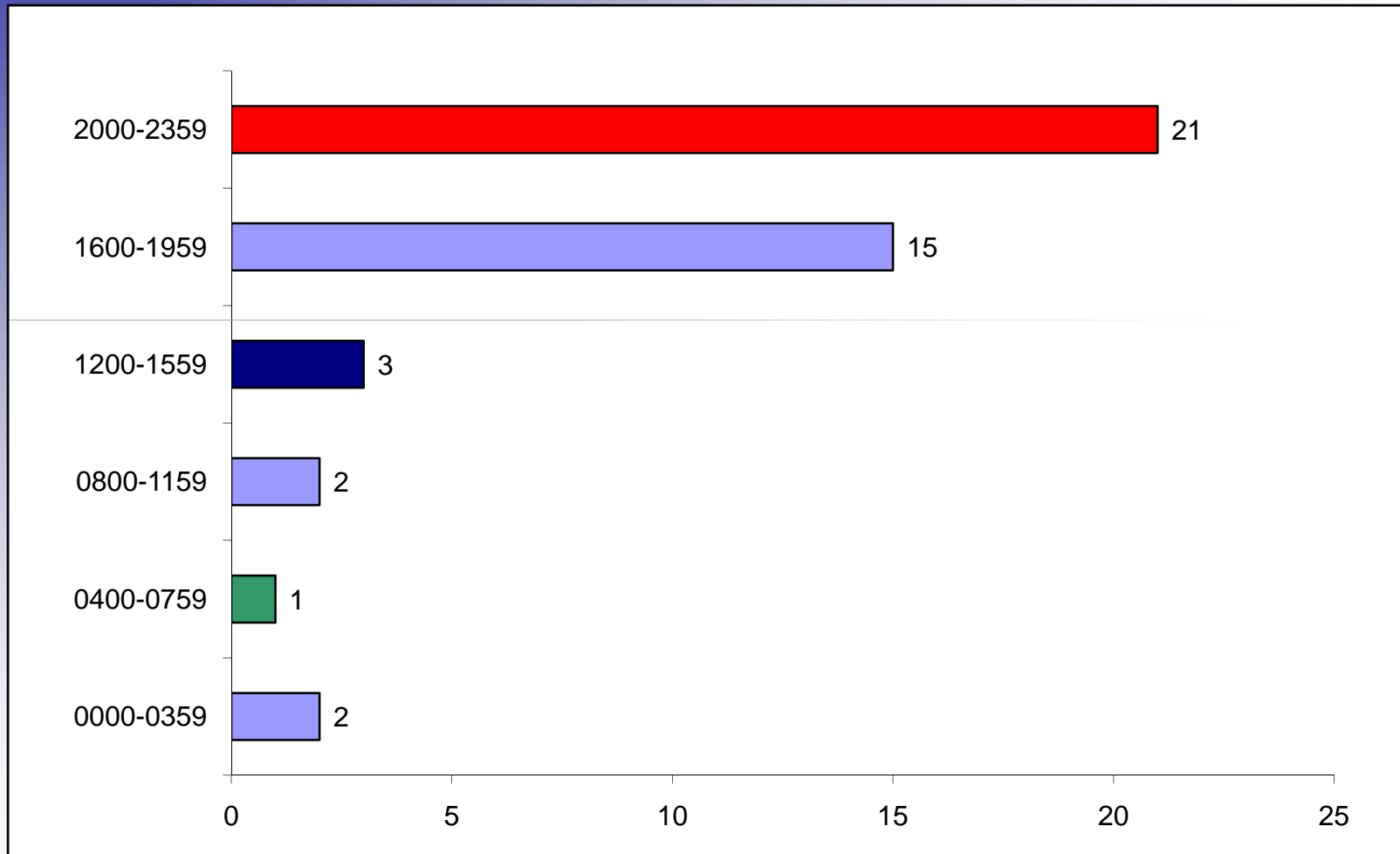
Crime Totals by Group



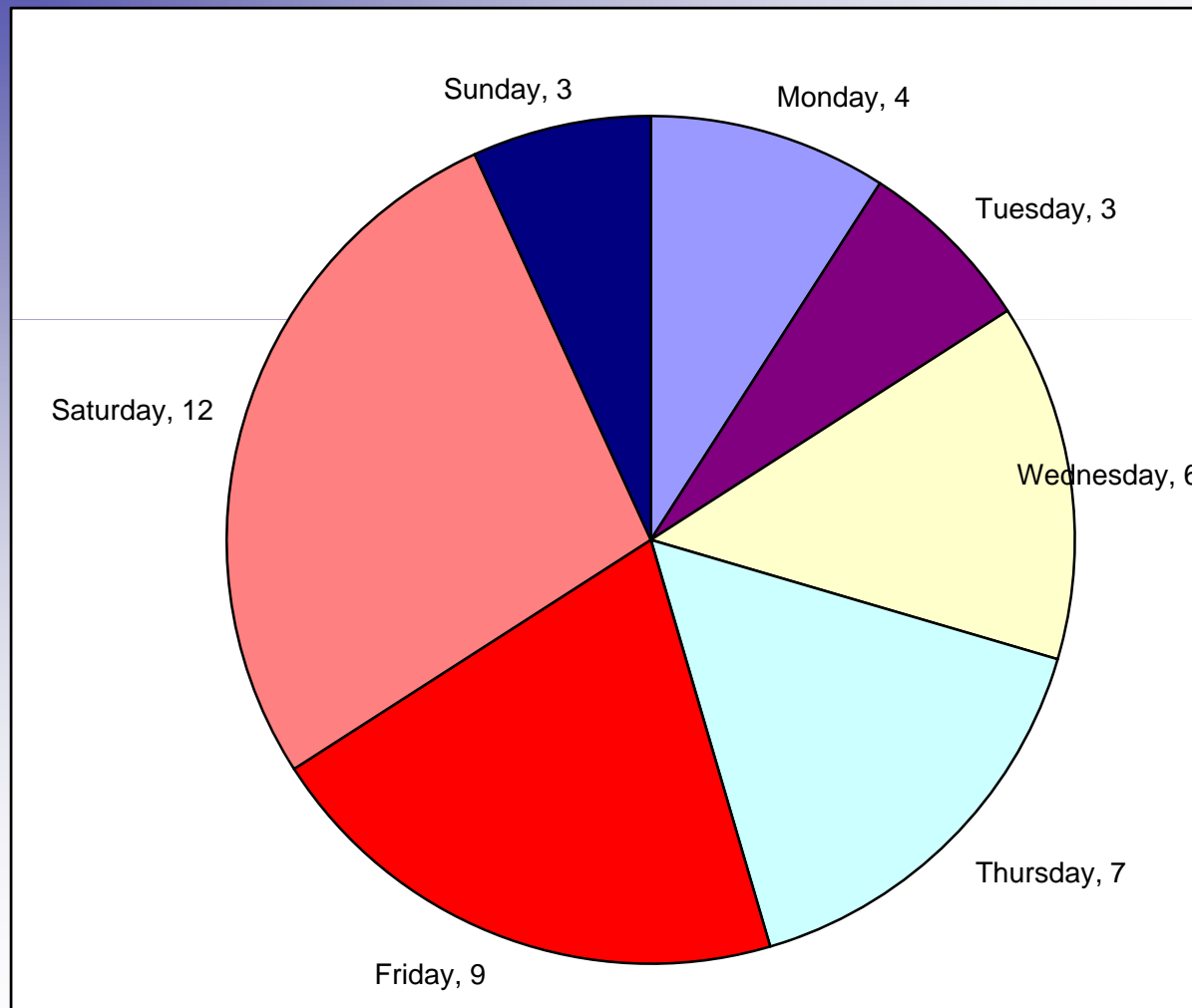
Crime Comparison by Site



Temporal Analysis



Temporal Analysis



Vulnerability Assessment

- Security Survey - a fact finding process whereby the assessment team gathers data that reflects the who, what, how, where, when, and why of an organization's existing operation and facility
- Internal Records

Vulnerability Assessment Security Survey

- General Information
- Organizational Issues
- Building Security Survey
- Patient Safety
- Emergency Center
- Infant/Patient Abduction
- Medical Supplies
- Information Services
- Cash Handling
- Parking Facilities
- Office Area Security
- Loading Docks

Risk Assessment

- Mitigation Strategies
- Cost-Benefit Analysis

Risk Formula

Threat

+

Vulnerability

=

Risk

Risk Assessment

Risk Matrix

	High	MODERATE	HIGH	CRITICAL
Threats	Medium	LOW	MODERATE	HIGH
	Low	TRIVIAL	LOW	MODERATE
		Low	Medium	High

Vulnerabilities

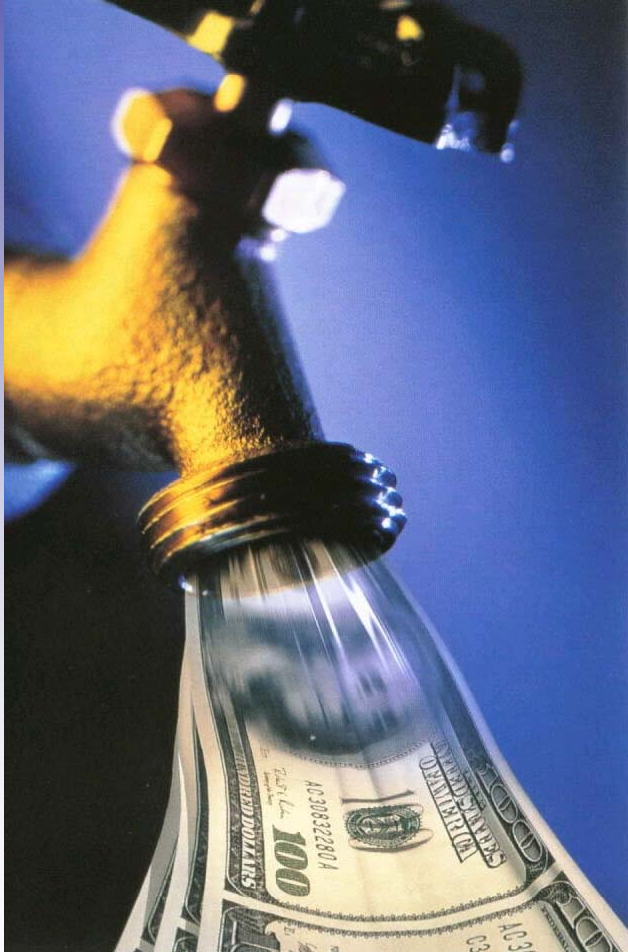
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Risk Assessment Mitigation Strategies

- Avoidance
- Reduction
- Spreading
- Transfer
- Acceptance

Risk Assessment Cost Benefit Analysis



Concepts:

- Reasonable Security
- Data Driven Security

Thank You

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