



# WMD Directorate



## Current National Chemical Threat to the United States

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# WMD Directorate



## MISSION

**Integrate WMD Preparedness programs and initiatives.**

**Initiate an outreach program to private sector to increase awareness and education of CBRN threats.**

**Promote proactive strategies for FBI components with other government agencies, the Intelligence Community and private sector.**

**Provide threat capability assessments of WMD incidences and intelligence for investigative purposes.**

**Staff each Field Office with a highly trained WMD Coordinator.**



# Objective



- **Discuss types of chemical threats to national security of United States**
- **Discuss how international events could affect security and operations in the United States chemical industry**



# Chemical Threats



1. Explosives – Oxidizers/fuel mixtures, ANFO, Peroxides/Black pepper; Synthesis, TATP, Urea Nitrate)
2. Toxic Industrial Chemicals (TICs-methyl isocyanate, pesticides, benzene)/Toxic Industrial Materials (TIMs)

## Forms of Dissemination of TICs

A. Burning of Toxic Industrial Materials (TIMs ) plastics, styrofoam

B. Release of Toxic Plume Clouds – chlorine, anhydrous ammonia gas cloud.



Murrah Building



TIC/TIM Burning at Chemical Plant in Jacksonville, FL



# Types of Chemical Threats



## 3. Chemical Poisonings (cyanide, ricin, thallium)

### 4. Improvised chemical device

Japan - Bath salts + detergent

United States – Pesticide + detergent

(Produce  $H_2S$  gas. Toxic/Flammable - Alert first responders/law enforcement.)

## 5. Chemical Agents (Blister, Blood, Choking, and Nerve Agents)

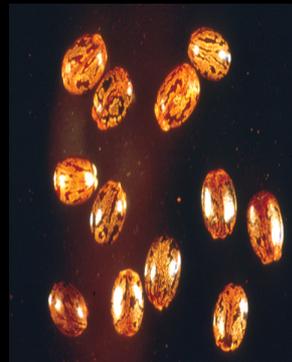
# Probability of a Chemical Attack (Low to High)



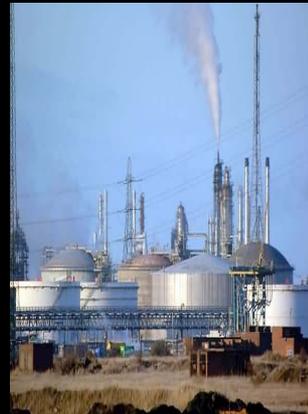
CW



ICDs



Poison



TICs



IEDs

Highest



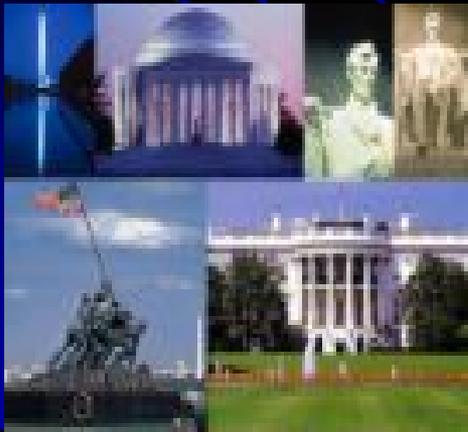
Lowest



# Possible Targets



- **Populated cities (New York, Chicago, Los Angeles, Washington DC)**
- **Contamination of food and agricultural products (agroterrorism)**
- **Government facilities**
- **Sports Venue**

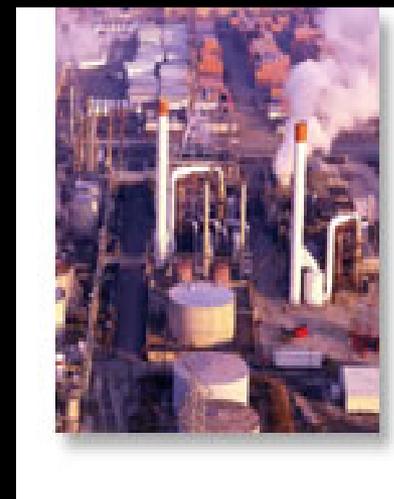




# Possible Targets



- Water Treatment Facilities
- Mall/shopping centers
- Chemical Sites (plants, tankers, seaports, universities)
- Railways/Mass Transit Systems
- Petroleum Facilities
- Airlines





# International Events That Could Effect Operation in US Chemical Industry



- Wars in Afghanistan and Iraq
- Foreign espionage and theft of intellectual property
- Attacks on United States interests (abroad)
- Piracy (hijacking of US ships transporting chemicals from US businesses)
- Trade restrictions on chemicals with countries such as North Korea, Syria, Iran, China



# Impact on US Chemical Industry In the Event of Chemical Attack



- **Loss of revenues/profits**
- **Increased operational cost**
- **Increased in physical security**
- **Higher insurance rates due to theft of chemicals/vandalism**
- **Cost of Contamination Cleanup**
- **Increased training for awareness of vulnerabilities to facilities/infrastructure**



# Incidences of Domestic Terrorism in United States



- In December 2008 Jeffrey Don Detrixhe received a sentence of 70 months in federal prison for attempting to sell 62 pounds of sodium cyanide to be used nefariously.
- In 1995, the bombing Alfred P Murrah Building with 5,000 lbs ammonium nitrate plus fuel by Timothy McVeigh resulted in 168 deaths and hundreds injured.
- In 1982, several deaths resulted in the tampering of Tylenol® with sodium cyanide in Chicago metropolitan area.



# Lone Offenders



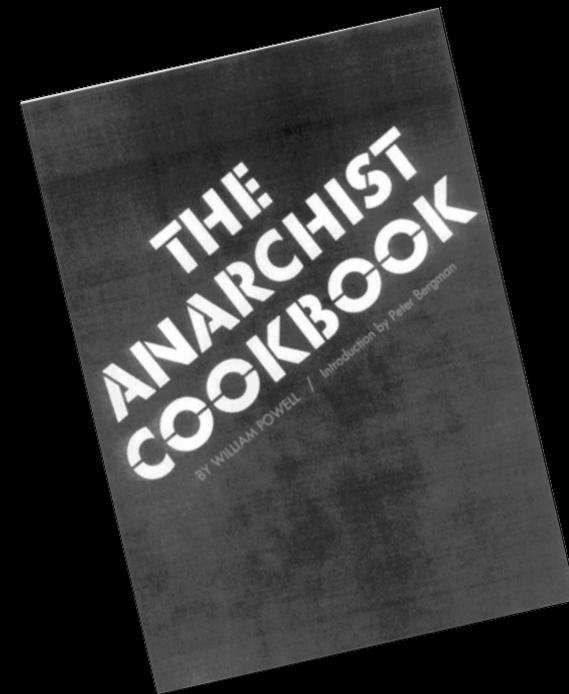
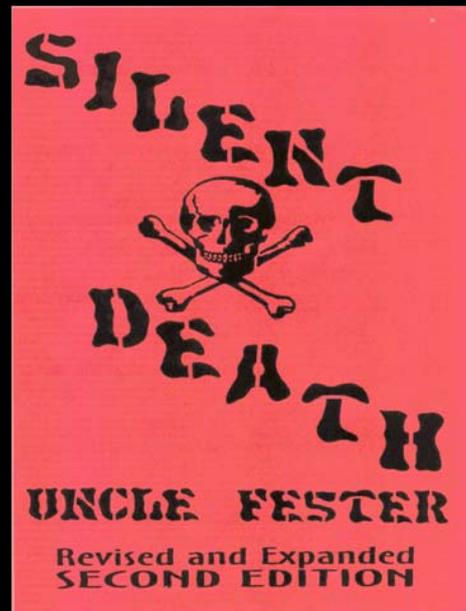
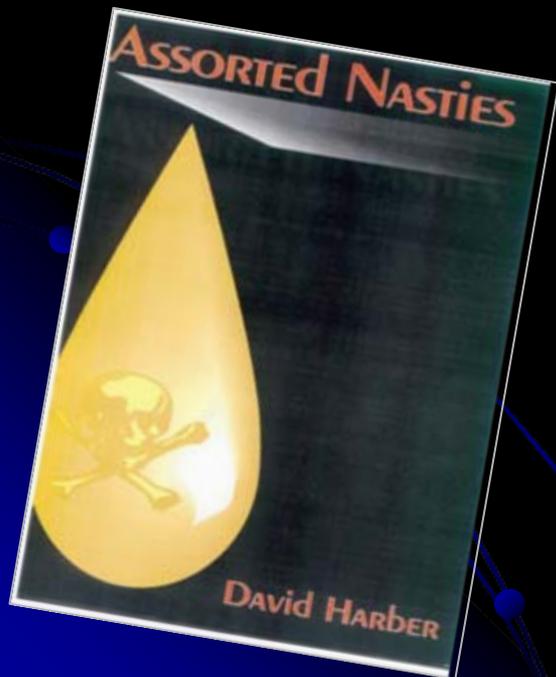
- Lone Offenders are responsible for the majority of CBRN domestic cases.
- Lone Offenders may have aspirations to conduct chemical attack.
- 6 known attempts since 2002.



# Manuals on Conducting Chemical Attacks



- Manuals used as a reference to conduct chemical attacks (internet).





## BE PROACTIVE NOT REACTIVE TO DETER CHEMICAL ATTACKS



Training Scenario



Chlorine tanker derailment  
in South Carolina



Police responding to a  
H<sub>2</sub>S gas suicide



**Questions?**



**Please call 911 in the event of a chemical attack.**

**Please contact FBI Field Office in perspective state for WMD Coordinator.**