

Summary of Threats to SONOMA COUNTY SCHOOLS

The Sonoma County Department of Emergency Services has identified 16 hazards that could threaten the well being of our community. We've excerpted information about these threats/hazards from the County's Emergency Operations Plan to assist you with planning for your school site and/or district office.

When reading through this document (*which we encourage you to do!*) ask yourself the following questions:

1. Which of these threats are most likely to affect my school or the district office?
2. Which of these threats are most likely to affect the ability of parents to pick up their child (ren) in an emergency?
3. Which threats are most likely to prevent staff from being able to come to the school site or return to their homes?

Bear in mind as you are reading that certain of these threats, especially terrorism, have the potential for attracting panicked parents and guardians to the school site, creating chaos and gridlock of neighborhood streets.

MAJOR EARTHQUAKE

- **GROUND SHAKING**

- i. Structural Damage to Buildings:
 1. broken windows
 2. building collapse
 3. T bar ceiling collapse
 4. light fixtures fall
 5. doors jammed shut
 6. loss of life or injuries
- ii. Non-Structural Damage Inside Classrooms and Offices:
 1. fallen cabinets
 2. four drawer files
 3. TVs
 4. aquariums
 5. bookcases
 6. rolling carts/pianos
 7. computers
 8. books and binders
 9. loss of life or injuries
- iii. Transportation Issues:
 1. Collapsed overpasses and bridges

- 2. Damaged roadways
- 3. Gridlock
- 4. Parents/guardians cannot reach schools
- iv. Communication Issues:
 - 1. Loss of phone service
 - 2. No way to notify parents/guardians
- v. Power Issues:
 - 1. Loss of electrical services
 - No power for lighting
 - If on a well, no water
 - i. Drinking
 - ii. Sanitation
 - iii. First Aid
 - iv. Fire Suppression
 - Traffic lights not functional leading to potential accidents and congestion

- **LIQUEFACTION:**

- Structural damage to buildings and roadways
- Buried tanks float to the surface
- Objects may sink into the soil
- Pipelines may sustain breaks

2. WINTER STORM

- Flash floods
- Mudslides and Debris Flows
- High Coastal Surf
- Coastal Erosion
- Stream and Creek Flooding
- Snowstorms
- Power Disruption
- Freeway and Surface Roads Flooding
- Loss of Life or Injuries
- Possible Mold Contamination

3. FLOOD

- Street and Highway Closures
- Water System Contamination
- Property Damage to Homes
- Loss of Life or Injuries
- Reduction in Property Values
- Possible Mold Contamination

4. LANDSLIDE

- Street and Highway Closures
- Property Damage to Homes
- Extended Evacuations
- Loss of Life or Injuries
- Reduction in Property Values

5. HAZARDOUS MATERIAL INCIDENT

- Road, Air and Air Spill Potential
 - Evacuations of Entire Neighborhoods or Communities
 - Long Term Contamination
 - Short Term Acute Symptoms
 - Long Term Chronic Symptoms
 - Loss of Life or Serious Injuries
- Contaminated Waste Sites
- Illegal Disposal

6. TRANSPORTATION ACCIDENT

- a. Air crash
 - i. Impact on School Site
 - ii. Impact in Neighborhood
 - iii. Hazardous Material Release
 - iv. Blocked Roadways for Emergency Responders
 - v. Loss of Life or Injuries in Aircraft and on the Ground
- b. Train Derailment
 - i. Hazardous Materials Release
 - ii. Loss of Life or Injuries
- c. Trucking Incident
 - i. Hazardous Materials Release
 - ii. Loss of Life or Injuries

7. WILDLAND URBAN/INTERFACE FIRE

- a. Property Damage to Schools and Homes
- b. Loss of Life or Injuries
- c. Long Term Evacuations
- d. Blocked Roadways
- e. Long Term Erosion Problems Resulting
- f. Reduction of Property Values

8. DAM FAILURE

- a. Property Damage
- b. Damage to Roadways
- c. Transportation Disruption
- d. Loss of Life or Injuries

9. **EXPLOSION**
 - a. Property Damage
 - b. Loss of Life or Injuries
 - c. Communications Disruption
 - d. Public Utilities Disruption
 - e. Transportation Disruption
 - f. Possible Hazardous Materials Incident

10. **TERRORISM (INCLUDING SHOOTER ON CAMPUS)**
 - a. Loss of Life or Injuries
 - b. Long Term Emotional Issues
 - c. Chemical/Biological
 - Short Term Acute Symptoms
 - Long Term Chronic Symptoms

11. **CIVIL UNREST**
 - a. Loss of Life or Injuries
 - b. Property Damage
 - c. Transportation Issues

12. **NATIONAL SECURITY EMERGENCY**
 - a. Nuclear
 - b. Chemical/Biological

13. **RADIOLOGICAL EVENT**
 - a. Roadway
 - b. Railway
 - c. Air

14. **TSUNAMI**
 - a. Property Damage to Roadways, Schools, Homes and Businesses
 - b. Mass Evacuations
 - c. Loss of Life or Injuries

15. **DROUGHT**
 - a. Economic Losses
 - b. Agriculture Losses

16. **PANDEMIC INFLUENZA**
 - a. Loss of Life
 - i. Estimates in Sonoma County: 329,000 Infected, 65,800-164,500 Severe Illnesses, 1,600-5,500 deaths and \$1 billion - \$3 billion in Economic Losses
 - b. Mass Illness of Students and Staff
 - c. Closure of Schools and Administrative Offices – closures could exceed 2 months and involve several waves/cycles.

- d. Closure of Public Meeting Places Throughout the County
 - i. Theaters, restaurants, sporting venues, retail business closed.
- e. Disruption of Mass Transportation Services
 - i. Possible closure of Hwy 101
 - ii. Airport closures throughout the region, nationally and possibly worldwide
 - iii. Bus service discontinued
- f. Disruption of worldwide trade and commerce

Now that you have familiarized yourself with these threats, you can use the "Threat Assessment Checklist" to assist your school and/or district office in developing their Emergency Operations Plan!