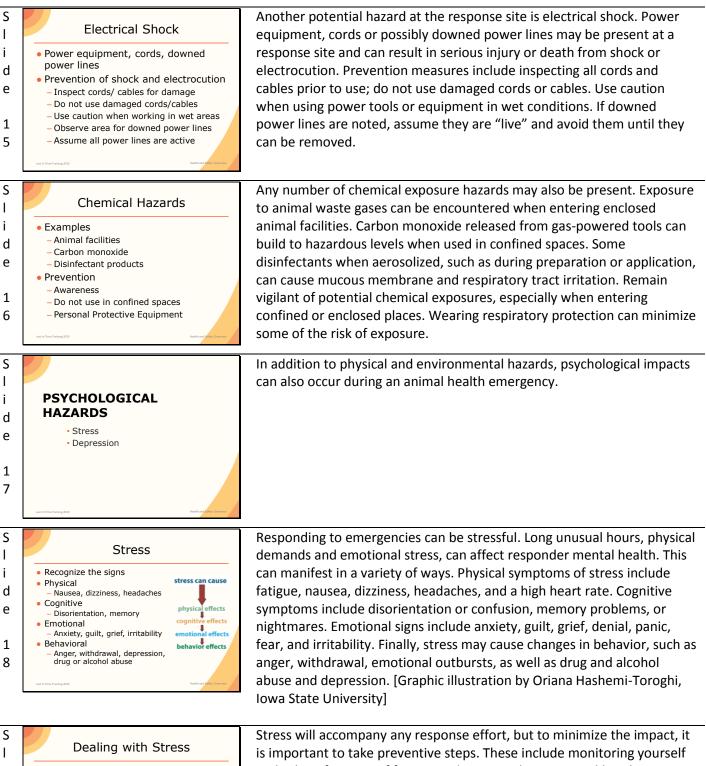


The best way to prevent heat-related illness includes self-monitoring and monitoring of others for signs of heat illness. Wear sunscreen with an SPF of at least 15 and reapply frequently. Take breaks in the shade to allow your body to rest and recover. Keep hydrated by drinking water or electrolyte sports drinks; avoid caffeine or alcohol. If signs of heat illness are noticed, move to a shaded areas and contact the Safety Officer or other medical personnel.

Cold weather conditions may also occur during response situations. Cold temperatures combined with wet and windy conditions can contribute to both frostbite and hypothermia. Frostbite occurs when the skin and body tissue just underneath it freezes; the skin becomes very cold, numb, hard and pale. Mild forms can be treated with first-aid measures; severe cases will require medical attention. Hypothermia occurs if your body loses heat faster than it can be produced. Signs of hypothermia include shivering, lack of coordination, slurring of speech, numbness in extremities, lethargy, and confusion. A person with hypothermia usually isn't aware of his or her condition. If any of these situations occur, get the person to a warm location, and contact the site Safety Officer or other medical personnel immediately. To prevent cold-related problems, dress appropriately and in layers. Keep hands, ears, and face covered as these area are especially prone to frostbite. Stay as dry as possible and avoid over-exertion (i.e., sweating). [Photo from Danelle Bickett-Weddle, Iowa State University]

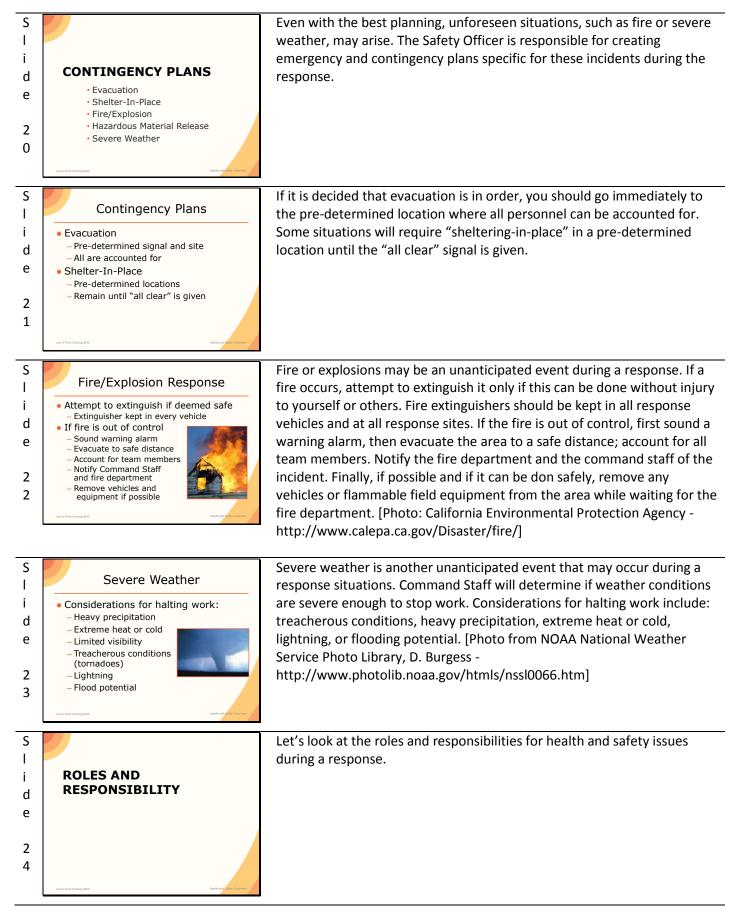
Most animal emergency responses will occur in outdoor settings. Depending on the season (e.g., spring, summer), bites and stings from insects (e.g, flies, mosquitoes, or ticks) can occur. In addition to the physical trauma caused by these encounters, some insects may also transmit vector-borne diseases such as West Nile virus or Lyme disease. Preventive measures include applying repellant products containing DEET (N,N-diethylmetatoluamide) or Picaridin. Additionally, wearing long sleeves and long pants which are tucked into boots, can minimize exposure areas to these vectors. Graphic illustration by Dani Ausen, Iowa State University]

Noise is another common environmental hazard at a response site and can come from any number of sources, including heavy equipment, power tools, or animal vocalization. Exposure to loud or prolonged noise can cause permanent hearing damage. Noise is measured by decibels adjusted or dBA. The figure shows the various noise levels generated by common activities. Eighty-five (85) dBA for 8 hours is considered hazardous. To roughly gauge noise levels of particular situations, hazardous levels are probable when holding a conversation or hearing another responder is difficult at 3 feet or arm's length. If entering "loud" situations, ensure some type of hearing protection is used. [Graphic illustration by Oriana Hashemi-Toroghi, Iowa State University]



1	
i	 Ways to reduce stress
d	 Monitor self and others for signs
	 Take frequent rest breaks
е	 Accept what cannot change
	 Maintain schedule as possible
	 Communicate with loved ones
1	 Take advantage of support programs
9	
5	

Stress will accompany any response effort, but to minimize the impact, it is important to take preventive steps. These include monitoring yourself and others for signs of fatigue and stress. Take occasional breaks away from the worksite. Recognize and accept things you cannot change, such as changes of command, equipment failures, or the event itself. Maintain a schedule that is as normal as possible when it comes to eating, drinking, and sleeping. Communicate frequently with loved ones or others on site to "destress" or take advantage of formal support programs.





While protecting the health and safety of personnel assigned to an emergency response is everyone's responsibility, management and monitoring of a safe working environment for all responders is done by the Safety Officer. Additionally, the Safety Officer will identify current and potential hazards, establish and train responders on safe work procedures (e.g., appropriate personal protective equipment), and prepare a Health and Safety Plan specific for the incident. If unsafe work conditions are noted, the Safety Officer does have the authority to issue an immediate stop work order. Other Sections of the ICS structure do play a role in health and safety procedures for the response. The Operation Section is responsible for creating safe work conditions, the Finance and Administration Section handles worker's compensation claims and the Logistics Section includes the Unit that provides first aid to responders.

