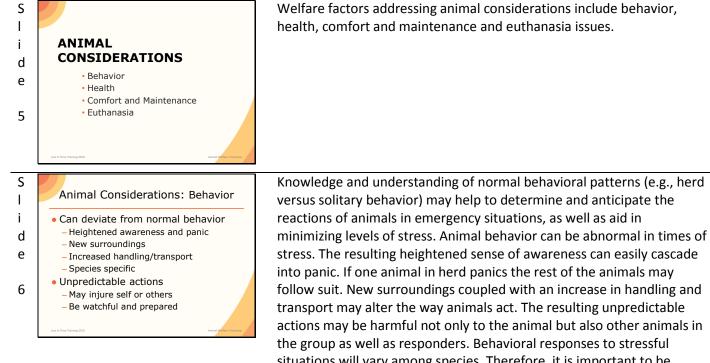


interact with the animals should be addressed. Experience and training are vital in protecting the welfare of animals. Responder mental health can also affect animal welfare factors. These will be explained further in

the next slides.





S	
3	Animal Considerations:
	Comfort and Maintenance
i	• Density
d	<ul> <li>Avoid overcrowding</li> <li>Stalls</li> </ul>
е	- Bedding, manure
-	• Temperature
-	<ul> <li>Excessive heat, cold</li> </ul>
8	Maintenance needs
	– Milking lactating animals
	– Exercise for horses
	Just in Time Toxining 2010 Animal Weitere Overview

versus solitary behavior) may help to determine and anticipate the minimizing levels of stress. Animal behavior can be abnormal in times of stress. The resulting heightened sense of awareness can easily cascade into panic. If one animal in herd panics the rest of the animals may follow suit. New surroundings coupled with an increase in handling and transport may alter the way animals act. The resulting unpredictable actions may be harmful not only to the animal but also other animals in the group as well as responders. Behavioral responses to stressful situations will vary among species. Therefore, it is important to be watchful and prepared for unpredictable animal behavior, regardless of the species you are working with and make efforts to minimize stress on the animals being handled.

Health monitoring of the animals must be conducted throughout the response. Routine non-invasive monitoring will reveal subtle signs of illness in the individual and the herd. Signs of injury should also be looked for. In addition, monitoring of pregnant, or potentially pregnant, animals is essential. Some animals may show a delay between the time of actual injury and showing signs due to a phenomenon known as stress analgesia. Therefore, you must be extra aware of animal health before, during, and after transport and sheltering. The sooner illnesses and injuries are seen, the less suffering an animal will endure. When illnesses, injuries, and other situations threatening to the animal's welfare are noted, the appropriate actions should be taken. The appropriate action may range from medical treatment to surgical treatment to euthanasia. (Photo courtesy of Dr. Danelle Bickett-Weddle)

Welfare consideration must address the comfort and maintenance for the animals being housed or sheltered. Animal density of animals should be assessed; these will vary with species. Overcrowding situations should be avoided to allow for reduced stress to the animals as well as decreased disease transmission. Stalls should be suited to the sheltered species and should be regularly maintained by providing bedding and removing manure. Environmental temperature should be monitored to ensure proper settings. Extremes in temperatures can lead to animal mortalities. Animals should be routinely monitored for signs of heat stress in the summer or hypothermia in the winter. If signs are noted, prompt treatment should be initiated. Some animals that will be housed during animal health emergencies will have specific maintenance needs to address. Lactating animals, such as dairy cattle, will need to be milked; some equines may require exercising. (Photo courtesy of Dr. Danelle Bickett-Weddle)



be safe so that animals do not injure themselves. Anytime unfamiliar people move animals to unfamiliar places panic may be increased, which can lead to unpredictable actions. Therefore, one must remain cautious when transporting animals.





Facilities will play a large role in animal evacuations and guarantines. Whether using a makeshift facility as temporarily housing or using an animal's existing shelter for guarantine, several elements needs to be considered. Food and water will be essential for the health and wellbeing of the animal. Fencing of the are will be needed to prevent the escaping as well as keeping wildlife and predators out. In addition to keeping the animal confined, stalls must allow for enough space for the animal to be comfortable and must provide enough separation from other animals, especially with dealing with intact males. Ventilation and temperature must be controlled as they can contribute to both animal discomfort and mortality if not properly set and maintained. The site should be scanned for foreign objects before animals are housed there. Foreign objects may include things like metal scraps or other hazardous materials that may injure the animal. Finally, sites must possess equipment that is used to maintain animals. A prime example of this is having adequate milking equipment when housing dairy animals. (Photo courtesy of the USDA).

An important consideration when moving and sheltering animals is to separate them out into the appropriate groups. Separation, or lack thereof, can directly affect welfare. Different species will have different grouping requirements. Horses may require individual housing while cattle can usually be grouped together. The sex of the animal also needs to also be considered, as it is usually inappropriate to house intact males together or with females. Life stage is another important consideration. Neonates need to be housed with their mothers for most species, such as beef cattle. Likewise, pregnant animals will need special housing and grouping. Finally, grouping by health status is vital to maintain herd health status. Sick animals should be kept away from healthy ones and exposed animals need to be completely separated from both sick and healthy animals. (Photo courtesy of Dr. Buss)

Human interaction with animals also plays into animal welfare issues. Humane handling of animals at all times is essential. This may become an issue during the strain and stress of emergency response situations.

ı d e	HUMAN INTERACTION  • Handling • Mental Health
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S I	Human Interaction: Handling
i d e	<ul> <li>Proper handling minimizes stress</li> <li>Responders with experience <ul> <li>Need to know species</li> </ul> </li> <li>Recognize unique situations <ul> <li>Do not hesitate to consult expert</li> </ul> </li> </ul>
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Proper handling is key when dealing with animal welfare during emergency response situations. The animals are already stressed when being moved or handled. Appropriate handling minimizes the level of stress and leads to better overall health and welfare. Responders that are responsible for moving animals need to have experience handling the species they are working with. Experience lends itself to proper handling and keeps both the animal and the responder safe. Responders also need to recognize situations that require moving unique animals (e.g., elk, bison) and consult an expert who has experience with the species.

