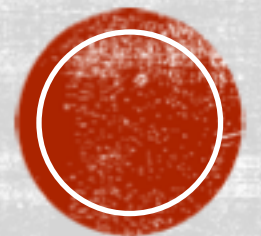




ANIMAL DECONTAMINATION TRAINING AND DISASTER RESPONSE TEAM



Presented by Brett Huff and Garret Leonard

www.animaldecon.com



WHAT WE WILL COVER

- - Quick Overview
- - The Problem
- - The Solution
- - Reasons for sustained demand
- - OSHA Compliance for Responders
- - Opportunity for your participation/partnership

OBJECTIVE

- Ensure proper techniques are used to prevent suffering and save the lives of animals thru proper animal decontamination.
- Train responders and local communities proper and effective decontamination of animals for all hazmat events.
- Educate animal decontamination is more than rinsing, scrubbing and rinsing.
- Provide mobile animal decontamination deployment services to disaster areas.
- Provide training and decontamination exercises for communities focused on household pets, working animals and livestock.
- Provide opportunities for organizations to support Animal Decon thru partnerships, scholarships, donations and advertising.





GOALS OF DECONTAMINATION

- Neutralize/remove harmful materials
- Confine to specified area
- Limit exposure time
 - Limit tissue damage and absorption
 - Prevent systemic poisoning
- Prevent secondary contamination to responders and other animals





COMPLIANCE TRAINING

- There are substantial knowledge gaps pertaining to the science of managing contaminated animals. We close those gaps thru training and education by bringing authority, expertise and resources to the planning process for developing your animal decontamination capability.
- OSHA's Hazardous Waste and Emergency Response standard (**HAZWOPER**) requires that workers be trained to perform their anticipated job duties without endangering themselves or others.
- 1910.120(e)(7)*Emergency response*. Employees who are engaged in responding to hazardous emergency situations at hazardous waste clean-up sites that may expose them to hazardous substances shall be trained in how to respond to such expected emergencies.
- All disaster responders at a minimum need 8 Hour Hazwoper and responders handling potentially contaminated animals may need 24 or 40 hour Hazwoper training.



DECONTAMINATION SYSTEM OVERVIEW



- The main purpose of **decontamination** at a hazardous materials emergency is to limit the spread of contaminants from the release area, or "hot zone," to include the cleaning of responders and their equipment.
- **Decontamination** is an **important** factor in preventing infection in primary and secondary care settings. Failing to **decontaminate** equipment or the environment may not always be obvious, but it can result in cross-infection and put animals, animal owners, responders and the community at risk.
- The removal or neutralization of a contaminating substance, such as poisonous gas or a radioactive material is necessary for overall health.





DECONTAMINATION SYSTEM

Agricultural animals must be managed in a complex array of priorities that include public health and safety, food supply safety, animal welfare, agricultural economics, and the environment.

Animal decontamination is a complex mission area that requires a commitment of time and the engagement of those with expertise in the science and management of animals and hazard incidents. Without such commitments, responders may be exposed to additional health risks and animal suffering may be increased.



FLOOD WATER



Flood-affected livestock may develop dermatitis (skin infection) and cellulitis (limb swelling) due to breaches in the skin's barrier capabilities from standing in contaminated water for long periods of time. This can lead to more serious complications such as septic arthritis and lameness if not treated appropriately.



FLOOD WATER

Livestock affected by floodwaters face a variety of issues varying in degrees of seriousness. While exposure to all disaster situations cannot be prevented, it is important for livestock to receive proper decontamination and after care to increase survival rate, minimize losses and alleviate suffering.



INTERFACE FIRES



- Severe fires throughout California over the past few years have exposed humans and animals to unhealthy air containing wildfire smoke and particulates. Those particles continue to live in the haircoats of livestock and if not properly removed create long term health issues for animals housed together that groom one another.
- Particulates can build up in the respiratory system, causing several health problems including burning eyes, runny noses and illnesses such as bronchitis. They can also aggravate heart and lung diseases such as congestive heart failure, chronic obstructive pulmonary disease, emphysema and asthma.



SMOKE



Smoke is made up of carbon dioxide, carbon monoxide, particulate matter, soot, hydrocarbons and other organic substances including nitrogen oxides and trace minerals. The composition of smoke depends on what is burned; different types of wood, vegetation, plastics, house materials, and other combustibles all produce different compounds when burned. Carbon monoxide, a colorless, odorless gas that is produced in the greatest quantity during the smoldering stages of the fire, can be fatal in high doses.



FIRE EMBERS



The removal of unseen fire embers that are easily masked under hair coats, if not decontaminated, may cause the ember to fester and burn and potentially kill an animal.



LIVESTOCK HEALTH DURING A FIRE



In general, particulate matter is the major pollutant of concern in wildfire smoke. Particulate is a general term used for a mixture of solid particles and liquid droplets found in the air. Particulates from smoke tend to be very small (less than one micron in diameter), which allows them to reach the deepest airways within the lung. Consequently, particulates in smoke are more of a health concern than the coarser particles that typically make up road dust. The longer the smoke lives on the skin and in the hair on an animal the higher the risk of long-term issues.





THE PROBLEM WE ARE SOLVING

- Thousands of potential animals including horses and other livestock each year are affected by toxic waste in flood waters and carcinogenetic particles from interface fires
- There are limited standards set for decontamination of livestock
- Limited training opportunities for responders
- No mobile decontamination system is available for livestock, small animals during or after disaster events
- High stress environments are created when decontamination is done improperly





THE SOLUTION

- Build a self-contained mobile decontamination system for all animals and humans for mass decontamination during and after a disaster.
- Design a system by equine and livestock professionals and approved by livestock veterinarians that can be used for multiple applications.
- Deploy and train animal decontamination teams to and in disaster zones.
- Train responders in national safety standards and thru education and training exercises according to OSHA and FEMA guidelines.
- Train responders how to properly decontaminate livestock, small animals and humans.
- Build a system that creates low stress handling.
- Station at least one mobile decontamination systems in all 8 FEMA regions, for quick response to a disaster region.
- Easy set within minutes of arriving to a disaster.
- Have corral panels on the trailer to contain loose animals on roadways and during vehicle accidents that include livestock.
- Use in animal cruelty cases to medically treat and load livestock.



RIDE YOUR BRAND ON THE DECONTAMINATION EQUIPMENT



- Brand recognition is one of the most effective forms of advertising in the market today, with a single vehicle wrap getting anywhere from 30,000 to 80,000 views per DAY according to the Outdoor Advertising Association of America (OAAA).
- In an extremely competitive advertising market, this is a simple, cost-effective method to get a consumer's attention...in a very big way.
- As a partner your brand will be placed on decontamination equipment.





OPPORTUNITIES TO MARKET YOUR BRAND

- The average American has traveled 302 miles in the past 7 days.
- 96% of Americans traveled in a vehicle as a driver or passenger in the past week.
- The average vehicle driven 15,000 miles per year will pass in front of 9 million other vehicles.
- 30% of mobile outdoor viewers base their buying decisions on ads they see.
- Mobile advertising is the most effective and efficient form of outdoor advertising, reaching more consumers at a lower cost per thousand impressions (cpm) than any other form of outdoor advertising.
- 98% of Americans indicated they notice media targeting vehicle drivers and passengers.





HOW YOU CAN GET INVOLVED

- Sponsor or donate tow-vehicles, trailers or other equipment
- Sponsor a local training exercise
- Sponsor training for an individual responder
- Sponsor an Animal Decon disaster team during a deployment (Up to 45 people as a type 1 FEMA Resource)
- Sponsor Fuel
- Advertise and ride your brand on our equipment
- Plus, many other options

For more information on becoming a partner:

- Brett Huff (573) 210-7402
- Garret Leonard (303) 489-5945





CONCLUSION

- Animal Decon provides animal decontamination training for animals of all species. If you are looking for decontamination training for household pets, service or working animals, wildlife, zoo, exotics or livestock, our training courses train responders proper safe handling and best practices.
- Your support of Animal Decon allows us to save the lives of animals from coast to coast that have been affected by tragedy.
- Your participation improves animal quality of life after a disaster.
- Thank you for all you do to support the animals in our communities.

