HORSES IN DISASTERS

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GO AWAY
HARVEY
Circle of Animal Disaster Work

Demobilization
Re-homing
Sheltering
Transport
Feed in Place
Shelter in Place
Event/Incident
Mission Assignment
Assessment
Planning
Search and Rescue
Field Intake/Staging
Event/Incident
PREPARATION

• Prevention (e.g. barn fires)
• Animal identification
• Planning for disaster
• Assessment: Stay or go?
• Shelter in place
• Removal/transport
Prevention: Barn Fires (I know it’s not a natural disaster, but....)
Prevention: Barn Fires

- The disaster that CAN be prevented!

- Only about 40% of horses involved in barn fires survive, and only 15% make full recoveries (return to work)

- Most common injuries are to the respiratory system (smoke inhalation and heat/burns to the respiratory epithelium) and topline (falling debris and embers from ceiling)
Prevention: Barn fires

- Replace all old electrical systems with new ones--inspect annually! Faulty wiring is the #1 cause!!
- All electrical junction boxes should be metal
- All wiring should be encased in metal conduit to prevent rodent damage
- Ditch stall fans in favor of large ceiling fans (Big Ass Fans)
- Keep heating devices away from hay/bedding
- Monitor and replace water heating devices frequently
- CLEAN!!! Cobwebs are very flammable!
Prevention: Barn Fires

• Invite your local fire department to visit your farm and assist you with identifying problems and developing a plan!
• Invest some time in Technical Large Animal Rescue Courses (TLAER)!
Animal Identification

- **Microchips** + permanent, not alterable, registered in database
  - not visible, initial cost, must get done prior to event
Animal Identification

• Halter tags and neck bands
  + visible, makes horse easier to catch
  - removable, can get lost or caught, must have prior to event
Animal Identification

• Body paint or clipping
  + visible (unless under water), quick/easy
  - can be removed/obscured, hair grows back
Animal Identification

Permanent marker on hoof

+ quick and easy

-difficult to see (esp. in water/mud), can be altered
Animal Identification

• Branding (freeze or hot)
  + permanent/difficult to alter, visible
  - initial cost, must be done prior to event, practice is not acceptable to everyone
Animal Identification

- Keep a file of paperwork for each horse! This should include:
  - Photos from both sides
  - Copy of current Coggins form with a full description
  - Copy of medical records
  - Copy of rescue intake documents with signatures
  - Copy of registration papers (if available)
  - Copy of microchip ID number (keep your contact info up to date!)
Planning for Disaster

• Communicate with local emergency services, flood control agencies, state and county animal rescue teams, TLAER
National Animal Rescue and Sheltering Coalition

• Formed in 2006
• Result of Lessons learned from Hurricane Katrina
• Need for additional training in incident management and ICS
• Communication, Coordination and Collaboration
• www.narsc.net
National Alliance of State Animal and Agricultural Emergency Programs (NASAAEP)

Foster national network of stake-holders to promote effective, all-hazards animal and agricultural emergency management

Best Practice Working Groups
Planning for Disaster

• Your plan should cover two options: to evacuate or to ride out the disaster in place, depending on…..

• nature of the threat
• how much warning you have
• individual situation
Planning for Disaster

- **Type of disaster**: hurricane, flood, wildland fire, tornado, earthquake, blizzard

  * will determine what type of plans you make, and which you will follow!
Planning for Disaster: Evacuation

• KNOW WHERE YOU ARE GOING! Make contacts in advance with places you can take the horses, and have several options

• Have a transport plan: will all horses go at once, or in several trips?

• Make sure your rig is road-ready at all times
Planning for Disaster: Evacuation

• If you are going to evacuate—DON’T WAIT! Traffic may leave you trapped... have alternate routes
Planning for Disaster: Evacuation

• Transportation! Responsible horse ownership includes being able to transport your animals…
• For a rescue with multiple horses, identify volunteers able to assist with hauling
• Keep the trucks gassed up and do a weekly safety check
• Stock your rig with a disaster kit
• Water and hay for at least 2 days
Planning for Disaster: Disaster Kit

• Flashlight and batteries
• Battery-operated radio, cell phones
• Extra halters (leather or breakaway type) and lead ropes (stud chain for extra control)
• Clean towels
• Emergency tools—chain saw, hammer and nails, wire cutter, pry bar, duct tape
• Material for quick temporary fence repairs
• Fire extinguisher
• List of emergency contacts (veterinarians, state and county animal-welfare and emergency-response teams)
• First aid supplies for animals and humans
Planning for Disaster: First Aid Kit

- 7-10 day supply of feed and water
- Antibiotic ointment (for wounds)
- Antibiotic eye ointment
- Bandage scissors
- Bandage tape
- Betadine® (povidone-iodine) or Nolvasan® (chlorhexidine), scrub and solution
- Cotton bandage rolls
- Cotton-tipped swabs
- Elastic bandage rolls
- Eye rinse (sterile)
- Gauze pads and rolls
- Non-adherent bandage pads
- Heavy gloves (leather)
- Diet: record the diet for your animals
- Twitch
- Hoofpick

- Medications: list each animal separately, and for each medication include the drug name, dose and frequency. Minimum 2 week supply if possible. Provide veterinary and pharmacy contact information for refills.
- Isopropyl alcohol/alcohol prep pads
- Knife (sharp, all-purpose)
- Latex gloves or nonallergenic gloves
- Saline solution (for rinsing wounds)
- Sterile lubricant (water-based)
- Thermometer (digital)/stethoscope
- Tourniquets
- Tweezers/hemostat
- Clean buckets
- Consult your veterinarian about other medications you may wish to carry!
Planning for Disaster

• Whether you are evacuating or sheltering in place…

• Be sure to have a SIGNED VETERINARY CARE DIRECTIVE approving emergency care of your animals and containing emergency contact information

• Include it in your paperwork that you carry with you in case something happens to you

• Leave it posted in a prominent place if you have to leave your animals behind
Planning for Disaster

• Trailer training is something we all need to work on before a disaster strikes!
• Which horses load best onto which trailer? Which horses travel best together?
• Write it into your plan and have it available for people who may be helping you!
• Remember, horses that don’t load easily MAY have to be left behind!
Planning for Disaster

• No one wants to be in this situation!
Planning for Disaster: Hazard Mitigation

• Clearing brush and timber away from buildings—create a fire barrier around your barns!
• Proper storage and/or disposal of building materials, farm implements, dead trees, etc.
• Anchoring barns to the ground to withstand wind
• Digging water channels to redirect water
• Keep barns, pens, etc. a safe distance from waterways
• Construct levees or permanent barriers
• Maintain roof structure soundness on all buildings
• All toxins and flammables properly stored or disposed of
Planning for Disaster: Hazard Mitigation

• Make sure your fences are strong and in good repair
Planning for Disaster: Hazard Mitigation

Look for power lines that may come down—if they are located around the area where your horse is to stay, RETHINK your plan! After flying debris, most horses are injured or killed by electricity from downed power lines. Be sure to turn off the main power to your barn.
Planning for Disaster: Tornado

• The one you can’t really plan for…
• Another good reason to keep everything clean, uncluttered, and up-to-par
Planning for Disaster: Tornado
Planning for Disaster: Tornado
Planning for Disaster: Sheltering in Place…

Animal identification is still critical

Enough hay and water for 10 days

Choose area in advance: higher pasture for flooding
large dirt/sand arena for fires

In strong hurricanes and tornadoes horses are likely safer outdoors
Planning for disaster: Sheltering in Place

• Horses require 1.5-2% of their body weight per day in dry matter—that means up to 20 pounds of hay per day each!
• Horses will drink 10+ gallons of water per day—a safe amount is 18-20 gallons per day per horse
• Place hay and water in the center of the area chosen for sheltering—the middle of a sand arena or dry lot for a fire, the top of the hill for floods
Planning for Disaster: Sheltering in Place

• Store hay in large plastic bags—one feeding per bag

• Average quality grass hay is best, to help prevent colic and laminitis

• 55 gallon drums with lids are useful for storing large amounts of water and keeping it clean

• 8-12 drops of chlorine bleach can be added per gallon of water if you are not sure of the potability
After the Event…Common Injuries

• Be prepared for the types of injuries you may see in the aftermath of a disaster
• Remember your veterinarian was likely also affected, and may not be readily available
• Triage horses for wounds, significant lameness or limb swelling, nasal discharge or cough, ocular injuries, off-feed, lethargic, or a temperature of greater than 101.5 degrees F
After the Event: Flood
Harvey horses...

PLEASE HELP these incredible vets – Kris Anderson, DVM in Santa Fe, Texas (near Houston) and Dr. Ben Buchanan, DVM from Brazos Valley Equine Hospital – who are doing this on their own dime. Many of these 40+ horses were found wandering, owner surrendered or from owners who have been devastated and are without funds to care for their horses.

All donations will go directly to these vet hospitals and to these horses. ALSO, Brazos Valley Equine Hospital is large and has a backstock of supplies/antibiotics – they are currently helping many vets in the area who are not able to get supplies due to high water. They are giving supplies away to whomever needs them.
Harvey horses...
Harvey horses...
After the Event: Wildland Fires

• Burn pattern is different from barn fire—legs, chest, face
Wildland Fires
After the Event: Wildland Fires
Snow and Ice Emergencies
Snow and Ice Emergencies
After the Event…

• Search and rescue
After the Event...

• Sheltering
What we want to prevent....
Be prepared....
Resources

• United States Department of Agriculture (USDA) Federal Emergency Management Agency (FEMA)  
  http://www.fema.gov

• IFAS Disaster Handbook  
  http://disaster.ifas.ufl.edu

• Extension Disaster Education Network (EDEN)  
  http://www.agctr.lsu.edu/eden

• National Agricultural Safety Database (NASD)  
  http://www.cdc.gov/nasd

• FEMA On-line Courses from the Emergency Management Institute (EMI) are available at no cost on the FEMA

• www.Resquip.com large animal emergency rescue equipment
Resources

• TLAER Dr. Gimenez (214) 679-3629
delphiacres@Hotmail.com
www.tlaer.org

• American Veterinary Medical
Association www.avma.org
https://www.avma.org/public/Emergency
Care/Pages/Pets-and-Disasters.
“Saving the Whole Family” booklet

• American Association of Equine
Practioners www.aaep.org
Disaster preparedness information

• American Society for the Prevention of
Cruelty to Animals Field Investigations
and Response Team www.aspca.org
Webinars

• Fleet of Angels www.fleetofangels.org
Emergency Event Management and
Transportation of At-Risk Equines
networking organization

• State VMAs and Animal Rescue
Teams (SART)

• County Animal Rescue Teams (CART)

• DANR Guide to Disaster
Preparedness: (pdf)

• Natural Disaster: Are You and Your
Horse Ready? http://www.thehorse.com/feat
ures/35909/natural-disaster-are-you-
and-your-horse-ready
Resources

• The Horse Report on Disaster Preparedness with videos: http://viewer.zmags.com/publication/e8f9c6af#/e8f9c6af/1

• Animals in Disaster Training Courses (Western Institute for Food Safety & Security at UC Davis): http://www.wifss.ucdavis.edu/?s=Animals+in+Disaster+Training+Courses

Deploy with us!!

• Fir.responder@aspca.org

Our Goal:

To do our part to build stronger, more disaster-resilient communities by enhancing their animal response capabilities
THANK YOU!

• Thanks to Homes for Horses Coalition and Cindy Gendron

• ASPCA and Field Investigations and Response Team

• All the heroes who are currently involved in disaster response and animal rescue all over the country

• Thank YOU for being here and all that you do

• The horses

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