# Sheltering and Animal Care in Disasters

**Animal Issues in Disaster: Unit 4** 

## **Objective**

To provide a basic level of knowledge, skills, and abilities to allow the participant to work effectively as a team member in an emergency animal sheltering operation.



## Why do we rescue?

- Public safety
- Public health
- Human-animal bond
- Property preservation





## Why do we shelter?

- Protect people
  - Facilitate evacuation
- Protect animals
- Protect mental health
  - Co-locate people and animals
- Protect public and animal health



## **Unit Objectives:**

- Understand the need for sheltering and services for animals in disasters
- 2. Identify elements of establishing a shelter
- Describe processes necessary to operate a shelter
- 4. Understand biosecurity and safety practices
- Understand how and when to conclude sheltering activities (demobilization)

## **Many Disaster Situations...**

- Natural
  - Floods, tornadoes, snow/ice, wildfires
- Man-made
  - Highway accidents, train derailments, terrorism
- Radiological
- Large Scale Power Outages



## **Levels of Impact**

- Small-scale/Household
  - Inaccessible homes: fire, condemnation, gas leak
  - Personal medical emergencies
  - Domestic violence
  - Auto accidents
- Community-wide: City, County, State
  - Tornadoes
  - Floods
- Multi-state/Federal
  - Radiological
  - Terrorism



## **Pre-planning**

- Identify your local resources
  - Partner agencies
  - Local organizations
  - Animal related businesses
- Determine shelter options
- Sources of supplies





## Responsibilities: Local

#### Locally responsible parties

- Emergency management agencies
- Animal control agencies
- Animal shelters
- Law enforcement

#### Support

- Veterinary professionals
- Public health agencies
- Purdue Extension
- Animal welfare groups
- Livestock associations



All emergencies are local events!



#### **Mission-Essential Tasks:**

#### **Animal and Animal Ag Response**

- 1. Rapid needs assessment
- Animal control and stray management
- 3. Animal evacuation
- 4. Animal transportation
- 5. Animal search and rescue
- 6. Animal sheltering
- 7. Pet-owner reunion

- 8. Animal feeding/water
- Agricultural infrastructure support
- 10. Veterinary care
- 11. Wildlife management
- 12. Animal decontamination
- 13. Mortality management



## **Populations in Need**

Companion Animals
Service Animals

Livestock

**Biomedical and Exotic Animals** 

Wildlife





## **Companion Animals**

#### **PETS Act definition:**

- Dog, cat, bird, rabbit, rodent, or turtle
- May be owned or unowned

#### **Does not include:**

- Reptiles
- Livestock
- Horses



#### **Service Animals**

#### **Americans** with Disabilities Act

- Provide aid for the disabled
- Service animals are NOT pets
  - Treated as an extension of the person
  - Must be sheltered with their owner
- Does not include mental health animals





#### **Service Animal Considerations**

Be prepared to provide these items to the American Red Cross or other sheltering agencies on short notice.

- Food, water, bowls, bedding
- Kennel
- Sanitation supplies





# Commercial vs Backyard Livestock

#### **Commercial**

- Agricultural enterprise
- Regulated by state
- Product regulation
- Disease control measures
- Self contained

#### **Backyard/Hobby**

- Raised for show or personal use
- May have local oversight
- Product for own use
- May not do disease control
- Travels to show, shares with others



## Native vs Captive Wildlife

#### **Native Wildlife**

- Owned by state
- Species is native to state
- Regulation to trap or catch
- DNR regulates activity
- Do not require rescue in disaster
- Possible disease source

#### **Captive Wildlife**

- Privately owned
- May have state or USDA permit
- Responsibility of owner or organization
- Larger facilities should have plans
- May have useful equipment, personnel for use by locals

# Biomedical and Exotic Animals

#### **Biomedical**

- Regulated by USDA
- Must have emergency plan as part of regulation
- Often involved in disease research
- Can be proprietary

#### **Exotic**

- Privately owned
- May or may not be regulated
- Local authorities may be unaware of presence
- May be a challenge to emergency planning



## PLANNING AND LOGISTICS IN YOUR RESPONSE



## **Response Priorities**

### 1.Protect people (Life Safety)

- Physical safety, zoonotic disease risks
- Owners, general public, staff, volunteers

#### 2.Protect animals

- Physical safety, security, diseases
- 3.Protect other property and the environment
  - Shelter site, owner equipment, waterways, etc.

### Risk Assessment

What scenarios are most common in your area?

- Tornados, floods, severe weather
   What other hazards does your county have?
  - Transportation, chemical plants, other industry

What kinds of animal populations are present?

- Urban: primarily pet population, some exotics
- Rural: livestock issues
- Unusual populations: zoo, sanctuary





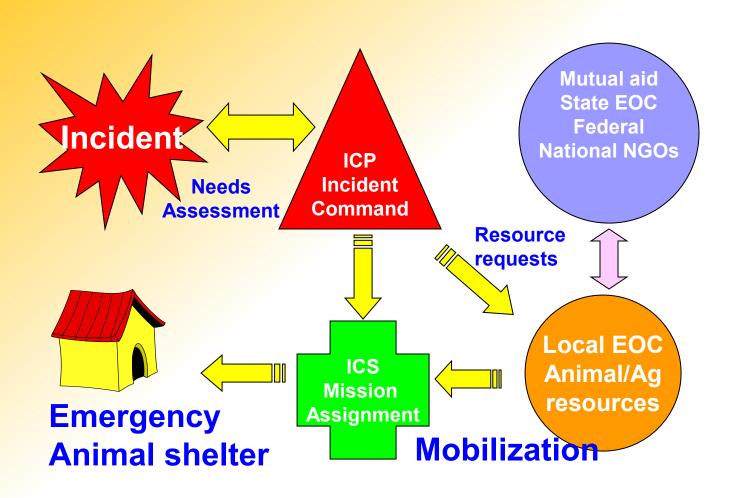
## **Facility Selection**

- Predetermined
  - Permission and MOUs in place
- Avoid known risks
  - Flood plains, railroads, etc.
- Suitable for local animal populations
- Access to utilities
  - Water, electricity, restrooms, heat, a/c
  - Able to support volunteer needs
- Proximity to human shelters



### Who decides when and where?

For emergency animal sheltering



## **Animal Shelter Options**

- Existing shelter
  - Depends on available space
- Rented or donated facility
  - Warehouse, empty storefront
- Community facility
  - School (people), gym
- Fairgrounds
  - Space suitable for companion animals



## **PETS Trailer**

Accommodates up to 72 companion animals

#### **Equipment included:**

- Crates/enclosures
- Collars, leashes
- Basic medical supplies
- ID/microchip readers







## Logistics

#### Acquiring equipment and supplies

- Cages/kennels
- Food/water
- Sanitation, litter
- Animal handling gear
- Record keeping
- Bowls, blankets, leashes





## Cages/Kennels

#### Airline kennels

- Match to animal size
- Not comfortable, clean often

#### Wire cages

- Better ventilation, less durability
- Easier to clean pans
- Wire very difficult to clean and disinfect

#### Kennels/kennel panels

Cats: Better in enclosed room

Need room for litter pan







## **Livestock Holding Facilities**

- Stalls
- Temporary panels
- Corrals/paddocks



- Isolate sick animals
- Separate intact male animals into secure pens





## **Additional Logistics**

#### Communication

- External
  - Phone, fax, Internet, radio, satellite phone
- Internal
  - Walkie-talkies, bulletin board
  - Meetings, shift change
- Media monitoring

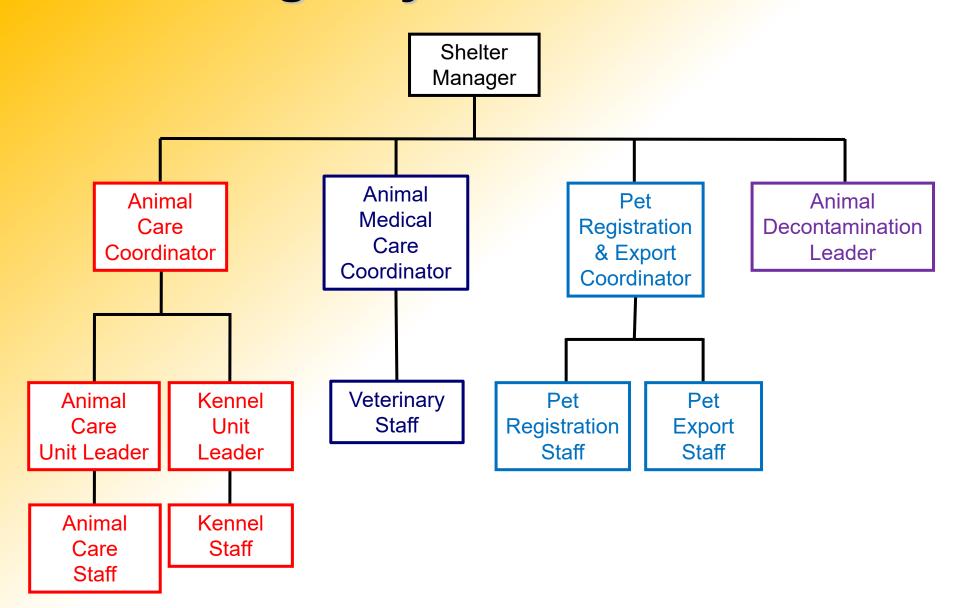
#### Site Access/Traffic Control

- People, supplies
- Animals (entry/exit)





## **Emergency Animal Shelter**



## **Shelter Manager**

- Not Incident Commander
- Responsible for entire shelter
- DELEGATOR
- Reports to (<u>example</u>):
  - Sheltering group leader (if multiple shelters) or
  - Animal branch leader (part of Operations)



## Staffing Responsibilities:

- Identify manager, team leaders
- Rostering/credentialing
- Set standards for shelter staff
- Require training/orientation or onboarding
- Volunteer management (with EOC)
- Shifts and schedules



## Volunteer Management

#### **Ideal Volunteer**

- Established relationship with
  - organization
- Trained
- Screened, as needed
- Pre-credentialed





# Spontaneous Untrained Volunteer Management

#### If needed

- Supervise with TRAINED volunteer/staff
- "Just In Time" training
- "Safe" jobs

#### If not needed

- Refer to volunteer center
- Take contact info
- Provide info on organization and opportunities for future training
- THANK THEM
- But don't be afraid to say NO



## **Just-in-Time Training**

# ROSTER all volunteers Condensed version of training (before)

- Animal Issues in Disaster (1 day)
- Introduction to Emergency Animal Sheltering

## On-the-job training

- Cleaning and disinfection basics
- Walking dogs
- Phone bank messaging
- Others

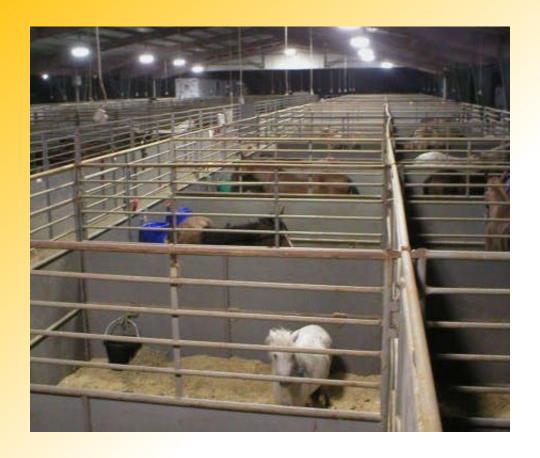


#### Sources for Ideal Volunteers

Shelter and rescue volunteer
Veterinary and clinic volunteer
Animal control personnel
Veterinarians/veterinary nurses

- VMRC (Veterinary Medical Reserve Corps)
- Local Veterinary clinics
- Must have personal disaster plan for family/animals





#### **TYPES OF ANIMAL SHELTERS**



## Not a glamorous job!

#### **Sheltering** is...

- Hard work
- Long hours





# Types of Emergency Animal Shelters

- 1. Stand-alone animal shelters
- 2. Collocated shelters
- 3. Cohabited shelters
- 4. Livestock emergency shelters
- Expanded use of existing animal facilities
- 6. Foster homes
- 7. Animal facility populations
- 8. Shelter in place



# Stand-Alone Animal Sheltering

- Animals housed in facility separate from humans
- Is TEMPORARY
- Operate under shelter management
- Includes owned and unowned animals
- Local authorities determine length of time it will exist
- Needs the MOST staffing (3X)



#### **Collocated Animal Shelters**

#### People:

Red Cross or another agency

#### **Animals:**

Sheltered in proximity to people

People assist in care of their animals

Requires collaborative planning-less staffing

Security is critical



#### **Cohabited Shelters**

- People and animals shelter together
- Owners are completely responsible for animals
- Rules and shelter limits well defined
- Animals must be able to co exist with people/animals
- TEMPORARY
- Needs fewest workers



# Livestock emergency shelters

- County fairgrounds
  - Access and permission
- Empty barn or pasture
  - With owner permission
- Sale barn or exhibition facility
  - Biosecurity restrictions
- Other creative solutions
  - Consider security and staffing needs





# Other Sheltering...

- Expanded use of existing animal facilities
  - Relocate current animals
- Foster homes
  - Used once temporary shelters have been closed
- Animal facility populations
  - Zoos, sanctuaries, biomedical facilities should have their own plans
- Shelter in place
- Mixed efforts
  - combination of several models





#### **ESTABLISHING THE SHELTER**



#### **Essential Tasks**

#### Establishing a shelter:

- 1. Setup
- 2. Intake
- 3. Security
- 4. Sanitation
- 5. Exit Strategy





### Task 1: Setup

- 1. Transport materials, personnel to site
- 2. Identify personnel assignments
- 3. Plan operational flow
- 4. Post signage
- 5. Liaison with human shelter (as needed)



# **Setup Tools**

- Inventory checklists
  - Equipment
  - Supplies
- Computers/Laptops
- Signage
- Barriers/barrier tape
- ID badges
- SOPs/guidelines/forms





# **Emergency Sheltering Flow**

#### **ARRIVALS**

**Animal Search & Rescue** 

Owner evacuated

**Stray (animal control)** 

Owner surrendered (permanent)

Animal facilities (kennels, clinics, zoos, sanctuaries, farms, others)

**Existing** shelters

Other animal facilities

**Temporary** Facilities

Co-located shelters

**OUTCOMES** 

Reunion

Transfer to other facility or foster care

**Adoption** 

Died

**Euthanasia** 

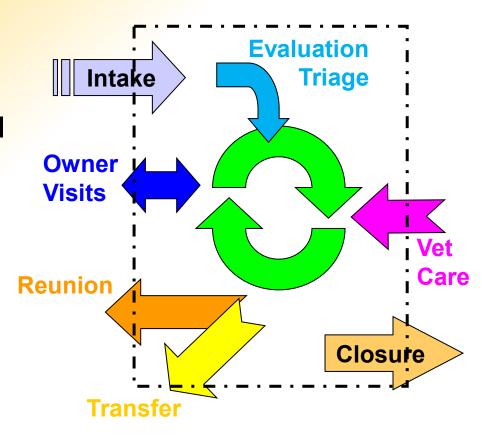
**Escape** 



# Flow of Emergency Animal Sheltering

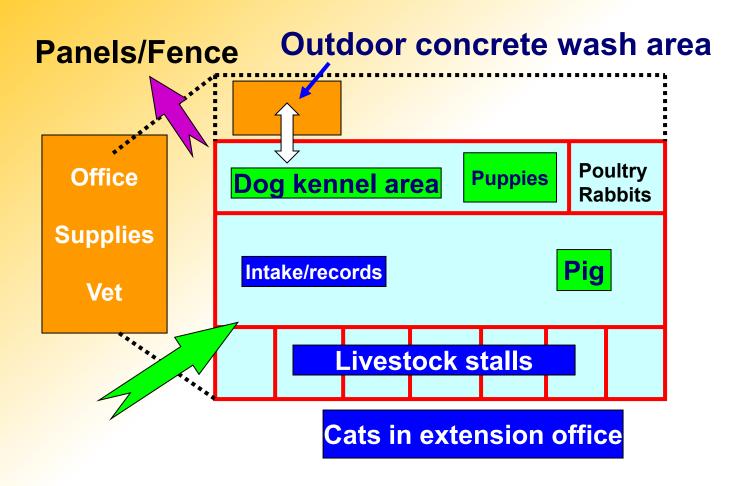
- Setup (Plans/Ops/Logistics)
- 2. Intake
  - Evaluation/triage
- 3. Site safety and security
  - Physical and biological
- 4. Ongoing animal care
- 5. Owner visitation
- 6. Veterinary medical care
- 7. Animal discharge
  - Reunion or transfer
- 8. Closure

#### Planning → Setup



#### **Establish Flow**

**Hoosier County Fairgrounds, IN** 













## Task 2: Intake

- Origin
  - Address vs proximity
  - GPS data
- Description
  - Written description
  - Digital photo
  - Microchip scan
- Identification
  - Tyvek collars, microchips, brands, tattoos, or eartags
- Signed release/transfer, if owned





#### Intake

#### **Health Examination**

- Veterinarian or technician
- Triage (rapid evaluation)
  - Stable: Green
  - Deferred care: Yellow
  - Needs immediate care: Red
  - Dead or certain to die: Black
- Determine vaccination status if possible





# Isolation/Separation

#### **Diseased or ill**

- Distance and biosecurity are key
  - Handle last or have dedicated personnel
- Monitor exposed animals for illness
  - BIOSECURITY: wear PPE

#### Special needs

- Pregnant animals
- Mothers with young
- Puppies and kittens
- Injured animals
- Bite quarantines





#### **Behavior Issues**

# House in separate area from other animals

- Aggressive: use only trained personnel
- Fearful: worker familiar with behavior
- Excitable/excessive barking
  - Need towels over cage?

#### Behavior evaluator

- Need to gauge adoptability of dog
- Obtain from large shelters or national groups



# Task 3: Security

#### Goals

- 1.Protect animals:
  - Escape
  - Injury
  - Theft
- 2.Protect people:
  - Injury
- 3.Control disease spread
  - People
  - Animals





### **Security Practices**

#### Limit access

- Limit access to authorized personnel
- Identify authorized personnel
- Escorts for visitors
- Limit entry and exit points





#### **Owner Visitation**

#### Owner ID

- Wrist band, lanyard, other?
- Code of conduct
- Posted rules

#### Collocated shelters

- Help care for pets
- Establish schedule for cleaning/exercise
- Don't allow handling of other animals
- Use caution if family includes children



# Task 4: Sanitation, Cleaning, and Disinfection







# 10 Essential Steps in Cleaning and Disinfection

- Assess areas to be cleaned
- 2. Remove all visible debris
- Clean with water and detergent/soap
- 4. Thoroughly rinse the cleaned area
- 5. Allow area to dry completely

- 6. Select and apply disinfectant
- 7. Allow proper contact time
- 8. Rinse
- 9. Leave area empty for sufficient time
- 10.Evaluate/monitor



#### **Disinfectant Considerations**

#### Label information

- Statements of efficacy
  - Medical environment claims
  - Broad spectrum/general purpose
- Dilution and use instructions
- Storage and stability
- Safety information
- Environmental considerations





### **Disinfection Challenges**

- Wire cages/crates
  - Use brush with soap/water, then rinse, spray with disinfectant
- Gravel or dirt surfaces
  - Cannot disinfect organic surfaces
  - Periodically move portable kennels
  - Plastic tarps for base

You cannot disinfect dirt, debris, wood, feces!



# Sample Cleaning & Disinfection Protocol

# Airline kennels, cat cages, litter pans

- 1. Disassemble
- 2. Remove all visible debris
- 3. Clean with soap and water
- 4. Rinse
- 5. Apply 1:30 diluted bleach
- 6. Wait 10 minutes
- 7. Rinse and allow to dry
- 8. Reassemble



#### **PPE for Disinfection**

- Gloves
  - EXAM (not Latex)
  - Dishwashing-type
- Eye protection (goggles)
- Apron, smock or coveralls







#### **Debris Removal**

- Have protocol for accumulated waste
- Potential source of contamination
  - Ideal place for insects and disease
- Arrange for proper disposal
- Clean up facility
  - Leave in better shape



## Task 5: Exit Strategy

### **Questions to ask yourself:**

- How long should the local jurisdiction provide sheltering after the disaster?
- How many animals is enough to continue to operate?
- When does the owner become financially responsible for the boarding costs?
- What will constitute a legal release?
- Where will remaining animals go and how will they be tracked?



## **Facility Closure**

# Closure strategy - determine an end date

- Transfer: known owner
  - Boarding kennels
  - Pet-friendly hotel or temporary housing w/owner
  - Owner agent (foster)
- Transfer: unknown owner
  - Permanent shelters
  - Boarding facilities





# **Animal Discharge**

- Return to owner/agent
- Transfer
  - Shelter
  - Other temporary
  - Foster care
  - Veterinary care

- Escape
- Adoption
- Mortality
  - Euthanasia
  - Disease/injury



# **Holding Periods**

Local policies prevail; no state law Normal stray holding: 1-10 days Disaster animals:

- Ambiguous status
- Never tested in IN
- Coordinate with local jurisdiction and BOAH to establish policy for each disaster
- Publicize official closing date



# **Discharge Considerations**

#### **Documentation**

- Owners must show ID
  - Document owner ID
  - Designate alternate person
- Proof of ownership:
  - Receipt from intake
  - Microchip #/record
  - ID with address matching intake form

For questions: Involve animal control/shelter personnel



#### **Shelter Records**

- Maintain records for each animal:
  - Intake info
  - Veterinary care provided
  - Release info
- Paper or electronic



#### Reunion

- 1. Goal: reunion with the owner or transfer to an authorized facility
- 2. Reunion depends on:
  - Accurate records
  - Security
  - Communication



### **ANIMAL CARE AND HANDLING**



### **Animal Care**

- Daily evaluation
  - Eating, drinking?
  - Vomiting/diarrhea?
  - Coughing/sneezing?
  - Other health issues
- Feed and water
- Sanitation
- Exercise
- Rest periods
- Daily census





### Feed and Water

#### **Dishes**

- Wash daily if possible
- Wash/disinfect between animals
- Paper (disposable)

#### Water

Potable only

### Companion animal feed

- Appropriate for species
- High quality
- Prefer new bags





# **Bedding**

- Towels, blankets
  - Warmer, more comfortable
- Newspaper, disposable pads preferred
- Disadvantage
  - Need laundered between animals
  - May be shredded by animals





### Cat Litter/Litter Boxes

- Change litter daily
  - Decrease sporulation of parasites
- Always clean and disinfect boxes between cats
- Don't use "scoopable" litter for little kittens
- Limit multiple kittens/cats per cage
  - 2 adults maximum/litter box



### **Exercise, Visitation, Rest**

- Periodic exercise
  - Dogs; probably not cats
  - Horses
  - Halter-broken livestock
- Owner or authorized staff only
  - Supervised
  - Designated area
- Animals need quiet time/rest period



# **Veterinary Medical Care**

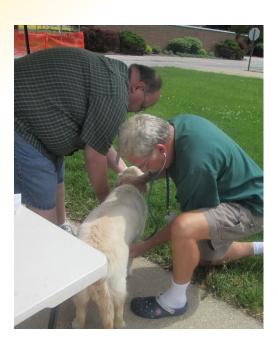
### Onsite care

- First aid/minor care
- Preventive care

### Substantial care

- Mobile clinic
- Transfer to stationary clinic
- Euthanasia

Daily screening check





# Livestock Feeding

- Grass hay strongly preferable
- Alfalfa hay
  - Increased incidence of colic, bloat, enterotoxemia
- Special diets
  - Pellets for older horses
- Concentrates/Grain
  - Species specific



# **Biosecurity and biosafety**



# Disease Transmission Routes in a Shelter

- 1. Oral (including foodborne)
- 2. Aerosol
- 3. Fomites
- 4. Direct



Some diseases may use multiple routes of transmission



# **Biosecurity in sheltering**

# Protect health by preventing spread or introduction of infectious agent

#### Examples:

Washing your hands

Shower-in/shower-out

Boot covers/scrubbing boots when coming and going



### Infection Control

- Isolate high-risk animals
  - Showing signs of illness
  - Relocate to veterinary facility if possible
- Cleaning & Disinfection
  - Use written protocols
- Limit access
  - Not a petting zoo
  - Wash hands between contacts

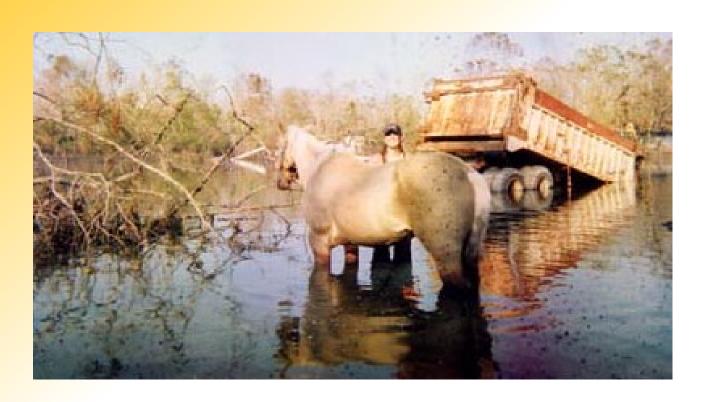


# **Personal Biosafety Practices**

- Wash hands frequently and thoroughly
  - Between animal contacts
  - Before eating or drinking
  - Use disinfectant hand gels if hands are not grossly soiled
- Do not eat or drink in animal areas
  - Have a separate break area
- Use appropriate PPE
  - Change clothes after working in shelter
- Disclose animal contacts to physician if you become ill



# Safety



# **Animal Handling Skill Sets**

- Dogs and cats
- Horses, mules, donkeys
- Other livestock
  - Cattle, sheep, swine, llamas
- Alternative livestock
  - Elk, deer, bison
- Poultry, ratites
- Small pets
  - Birds, reptiles, rodents, rabbits, ferrets, others



# Animal Handling and Restraint: Pets

- Loop leashes only for dogs
  - No leashes clipped to collars
- Minimum 2 people in dog areas
- Dangerous dogs (separate)
  - Handled by shelter professionals, veterinary professionals and ACOs only
  - Identify with clear signage

If possible, have perimeter fencing



# Common Reasons for Injury

# Major causes of animal-handling accidents:

- Fearful, agitated animals
- Male dominance aggression
- Maternal aggression
- Inexperienced handlers
- Faulty equipment

Reducing fear improves both animal welfare and safety

List adapted from Temple Grandin, Colorado State University



### **Bites & Scratches**

### Written guidelines/policies

- Prevention/safety training
- Post-bite protocols
  - medical treatment
- Quarantine protocols
  - 10 days: dogs, cats, ferrets
- Risk recognition
- Cat scratches
  - Cat-scratch fever

#### REPORT ALL BITES

All animal bites to people must be reported to the local health department



# Rabies Prophylaxis

### Vaccination

- High-risk personnel should receive preexposure prophylaxis
- Antibody titer monitoring once vaccinated

### Post-exposure prophylaxis

- Coordinate with public health
- Needed in:
  - Known positive cases
  - Exposure by animals unavailable for testing (wildlife)

Indiana rabies exposure information: www.in.gov/rabies



# **Animal Handling: Livestock**

ONLY EXPERIENCED PERSONNEL SHOULD HANDLE LIVESTOCK!

- Use halters and lead ropes for all horses
- Use appropriate herding techniques for livestock that are not halter-broken
- Use care with females with babies and intact males



# **Animal Handling: Exotic Pets**

(Birds, Reptiles, Rabbits)

### Special concerns

- Often temperature sensitive
- Better if owner brings cage from home
- May need high humidity for some reptiles and most amphibians
- Caution for escape, injury

Restrict handling to experienced personnel!



### **General Safety Considerations**

### If asked to do something that:

- You don't think you should...
- You are not qualified for...
- You think is dangerous...DON'T

### Instead:

- 1.Find appropriate personnel/equipment
- 2.Seek appropriate supervision
- 3.Report to Safety Officer if unresolved



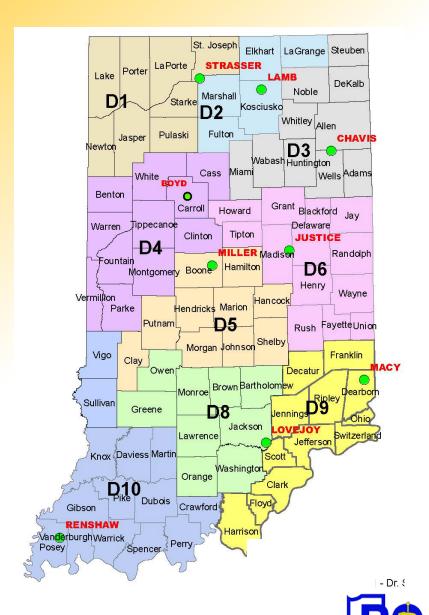
# Summary

- Understand the need for sheltering and services for animals in disasters
- 2. Identify elements of establishing a shelter
- 3. Describe processes necessary to operate a shelter
- Understand biosecurity and safety practices
- Understand how and when to conclude sheltering activities (demobilization)



# Questions? Call your District Vet!





### **Contact Information**

www.boah.in.gov
317/544-2414
animalhealth@boah.in.gov
www.facebook\INBOAH
@INBOAH



# **End of Unit 4**

