Emergency Animal Management During Disasters

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Types of Occurrences

- Natural
- Accidental
- Intentional
Devastating Impacts

- Economic impacts
- Sociologic impacts
- Emotional impacts
- Political impacts
Foot and Mouth Disease

- Not in U.S.
  - A reportable disease

- Viral disease
  - Domestic and wild cloven-hoofed livestock
Anthrax

- In U.S.
  - A reportable disease

- Bacterial disease
  - Domestic and wild livestock
  - People – zoonotic disease
Avian Influenza
Avian Flu     Bird Flu

- A reportable disease

- Viral disease
  - Migratory waterfowl
  - Domestic poultry
Two classifications – disease symptoms

- Low-pathogenic avian influenza (LPAI)
  - In US

- High-pathogenic avian influenza (HPAI)
  - Not in US
  - Zoonotic disease (rare)
First Line of Defense

- Education of first defenders is key
  - Animal owners
  - County Extension agents
  - Private veterinarians
Emergency Animal Management of Disease Disasters

- Biosecurity is key
- Early detection is key
  - Unusual signs
- Rapid reporting is key
- Rapid response is key
- Prompt quarantine is key
Quick diagnosis is key

Disease surveillance is key

Regulatory agencies and animal industries working together is key
Biosecurity Measures

- Wash hands
- Wash disinfect boots
- Wash disinfect trailer
- Wash disinfect tires
- Wash disinfect borrowed equipment
- Proper garbage disposal
- Lock gates
- Stranger alert
- International visitor – >48 hours wait
- Purchased livestock – >2 weeks isolation, test
- Routine observations
State Emergency Management

- Texas State Emergency Management Plan
  - Annex O
    - Agriculture Production and Companion Animals

- Appendix 3
  - Foreign and Emerging Animal Diseases (FEAD) Response Plan

- State jurisdiction
  - Texas Animal Health Commission
Key Components of Plan

- Mitigation
- Preparedness
- Response
- Recovery
Identified incident command system

- Incident command post(s)
- Incident commanders – TAHC and DPS
- First Assessment and Sampling Team (FAST)
- Joint Information Center (JIC)
- Texas Emergency Response Team (TERT)
  - To support field deployed ICP(s)
Quarantine animals

- Several mile radius containment zone
- Months to years
- Depopulate animals
- Surveillance of animals
- Control or eradicate options
Simulative Exercise
State Emergency Management

- Texas State Emergency Management Plan
  - Annex O
    - Agriculture Production and Companion Animals

- Appendix 5
  - Animal Response (AR) Response Plan (pending)

- State jurisdiction
  - Texas Animal Health Commission
New legislation

- Pets Evacuation and Transportation Standards Act of 2006 (PETS Act)
  - State and local jurisdictions must plan for sheltering and evacuation prior to disaster
  - No Plan = No FEMA aide
- Texas HB-88 “Simba’s Law”
  - Assist local jurisdictions with animal-related emergency planning
Emergency Animal Management of Non-disease Disasters - Floods
Emergency Management of Non-disease Disasters - Tornadoes
Emergency Management of Non-disease Disasters – Evacuation, Shelters
Emergency Management of Non-disease Disasters – Hurricanes, Carcass Disposal
Local Emergency Management

- Texas Local Emergency Management Plan
  - Annex N
    - Direction and Control

- Appendix 4
  - Animal Issues Committee (AIC) Plan

- Local jurisdiction
  - County Judge or City Mayor
  - Local Emergency Management Coordinator (EMC)
Key Components of Plan

- Mitigation
- Preparedness
- Response
- Recovery
Local Animal Issues Committee
Possible AIC members

- Animal control representative
- Animal humane association representative
- Public veterinarians
- Private veterinarians
- Veterinary technicians
- Animal health regulatory agency representative
- Public works representatives
- Animal industry representatives
- Environmental representative
- Agricultural science teacher
- County Extension agent
- Media communication representatives
- Elected official representative
- Emergency management coordinator representative
Natural Animal Disasters

- Disease outbreaks
- Floods
- Wildfires
- Hurricanes
- Tornadoes
- Winter storms
- Droughts
Human-caused Animal Disasters

- Disease outbreaks (accidental)
- Disease outbreaks (intentional)
- Traffic
- Terrorism
- Power outages
- Explosions
- Hazardous material spills
Disease

(Disease (Natural, accidental, intentional))

FAD
1. FMD

EAD

Reportable
1. Anthrax

Non Reportable
1. Salmonella

- Carcass Disposal
- Quarantine
Non-Disease

- Hurricane
- Wildfire
- Flood

- Disposal
- Shelter

Non-Disease
(Natural, accidental, intentional)
Local (County) AIC Plan

- Appendix to Local EM Plan
- Addresses animal issues (includes **BOTH** livestock and pets)
- Determines what should be done before, during and after disaster
Developing the Plan

- Local AIC Plan is set of guidelines
- Committee should advise local government authorities
- Lay out possible animal disasters in area
  - Natural and human-caused
  - Disease and non-disease
- Identify animals
  - Pets
  - Livestock
  - Wildlife
Once you have identified types of animals and disasters start thinking of different “Functions”

Create Community Animal Response (CARP) Plans for identified “Functions” in county
Types of Functions

- Shelter
- Evacuation
- Rescue
- Carcass Disposal
- Security
- Damage assessment
- etc
Prioritize

Local AIC plans appropriate functions for each identified event

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<th>Shelter</th>
<th>Evacuation</th>
<th>Rescue</th>
<th>Disposal</th>
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<td>CBRNE[1] (Limited)</td>
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[1] CBRNE = Chemical, Biological, Radiological, Nuclear, and Explosives
Create Local Animal Issues Committee (AIC) Plan
- Submit to Local EM for approval
  - Incorporate in Annex N Appendix 4 of Local EM plan

Create Community Animal Response (CARP) Plans for identified “Functions” in county
- Submit to Local EM for approval
  - OPTION A: Attach CARPs to AIC Plan of Local EM Plan
  - OPTION B: Incorporate CARPs into corresponding annexes as emergency support functions (ESFs) of Local EM Plan
Response to Animal Non-disease Disasters

- Local EMC activates Local AIC Plan
- Local EMC requests assistance
  - GDEM
  - FEMA
  - TXSART
  - CARTs
Response to Animal Disease Disasters

- TAHC is lead agency (top down authority)
- TAHC activates and directs State FEAD Response Plan
- TAHC activates and directs Local AIC Plan through Local EMC
Available Resources

- http://aevm.tamu.edu
- http://texashelp.tamu.edu
- http://eden.lsu.edu
- http://fazd.tamu.edu
- http://www.tahc.state.tx.us
- http://www.dshs.state.tx.us/idcu/health/zoonosis
- http://www.cdc.gov