Animal Disease Control

Animal Health Emergency Planning

Animal Disease Traceability
Current Regulation Changes

• Reportable Animal Diseases
• Trichomoniasis
• Small Animal Regulation Changes

• What’s Coming?
  – Animal Movement Regulation

Brand Statute Revisions

• Brand registration
  – expires and is not renewed within 60 days, it will be forfeited and become available for anyone to register. The current language states the brand would be placed in delinquency status after the 60 days, and then forfeited after 120 days of non-renewal.

• The brand inspection fee will be the same for all livestock.
KSVMDL Positive Lab Accessions

Trichomoniasesis Testing

Kansas State Veterinary Diagnostic Lab

• 2013  4800 samples – 1.5% positive

• 2014    7000 samples - .35% positive

• 2015  >8000 samples - .2% positive
Trich Regulation Proposed Additions

- Establish neighbor notification for positive herds
- Definitions:
  - Positive Herd, Positive Animal, Exposed Animal
- Establish parameters and requirements of quarantine animals/herd
- Require official ID on all animals tested for Trich
- Requirements for stray bulls
Anaplasma Marginale

- Intraerythrocytic bacteria – rickettsia

- Causes severe anemia and death
  - Cattle, sheep, goats, buffalo and some wild ruminants

- Clinical signs
  - Subclinical < young animals
  - Moderately sever in yearlings to 2 years old
  - Sever - fatal in adults
Anaplasma Marginale

- Peak anemia can range from 10-30%
  (As high as 65%)

- Clinical signs – consistent with severe blood cell destruction
  - Anemia, jaundice, respiratory distress, aggressiveness

- Recovered cattle
  - Remain chronic carriers
  - Considered immune to future infections

Anaplasmosis

- Transmission
  - Blood sucking vectors
    - Ticks
    - Flies
    - Mosquitoes
  - Blood infected instruments
    - Hypodermic needles
    - Tagging pliers
    - Dehorners
    - OB sleeves
Anaplasmosis

• Treatment
  – Tetracyclines (Injectable)
    • LA-200, Oxytet
  – Oral Tetracyclines
    • CTC
    • Tetracycline
  – How does the new VFD rules affect availability?

2013: Anaplasmosis Positive Counties
2014: Anaplasmosis Positive Counties

2015: Anaplasmosis Positive Counties
Reportable Disease List Update

• Current List
  – All species of Brucellosis
  – Equine Infectious Anemia
  – Classical Swine Fever
  – Pseudorabies
  – Psoroptic Mange
  – Rabies
  – Tuberculosis
  – Vesicular Stomatitis
  – Avian Influenza
  – Pulmonary
  – Fowl Typhoid
  – Pottiacosis
  – Exotic Newcastle Disease
  – Foot and Mouth Disease
  – Rinderpest
  – African Swine Fever
  – Piroplasmosis
  – Vesicular Exanthema
  – Johne’s Disease
  – Scabies
  – Scrapie
  – Bovine Leukosis
  – Trichomoniasis

• Proposed Additions
  – Equine Herpesvirus Myeloencephalopathy
  – Western Equine Encephalomyelitis
  – Venezuelan Equine Encephalomyelitis
  – West Nile Virus
  – Bovine Spongiform Encephalopathy
  – Chronic Wasting Disease

• Proposed Deletions
  – Bovine Leukosis
Vesicular Stomatitis

2015

- Eight hundred twenty-two (822) VSV-affected premises (New Jersey serotype) have been identified and quarantined in 8 states

Arizona Texas
Colorado Utah
New Mexico Wyoming
South Dakota Nebraska
VSV Cumulative: Counties with Premises Quarantined
April 29, 2015–present
Porcine Epidemic Diarrhea Virus Positive Biological Accessions

Map 1. PEDV: Cumulative Confirmed and Presumptive PEDV Positive Premises since June 5, 2014

Senecavirus A (Seneca Valley Virus)

Senecavirus A is a non-enveloped single-stranded RNA virus of the family Picornaviridae. Foot and Mouth Disease Virus (FMDV) and swine vesicular disease virus (SVDV) is also a member of this same viral family.
Equine Diseases

**EHV-1**
- New Mexico Racetrack and training facility
  - Reported 1/22/2015
  - 56 confirmed positive, 20 exposed barns
  - 11 horses euthanized to date
  - No trace outs to KS

**EIA**
- Kansas positive herd

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**AVIAN INFLUENZA**

- **Highly pathogenic (HPAI)**
  - Extremely Infectious and fatal
  - Easily spread
  - Can affect humans (H5N2 strain was not infective to humans)
  - US cases were HPAI H5N2

- **Low pathogenic (LPAI)**
  - Minor illness in birds – Possibly no clinical signs
  - Respiratory signs, ruffled feathers, ↓ eggs
  - Capable of mutating to HPAI viruses
Migratory Waterfowl Flyways
2015 Kansas AI Incidences

• Four AI Events
  – Jasper Co (MO) - HPAI
  – Leavenworth-Wyandotte – HPAI
  – Crawford Co. – LPAI
  – Harvey Co. – Contact

• Each Event Unique
2015 National HPAI Outbreak

Confirmed in the past:
- 15 days:
  - Red
- 30 to 45 days:
  - Orange
- 60 to 90 days:
  - Yellow
- 90 plus days:
  - Green

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<td>Detectors Reported</td>
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<td>48,091,293</td>
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2/12/2016
National Lessons Learned

• We weren’t prepared for an outbreak of this magnitude

• Euthanasia must happen within 24 hours of positive diagnosis

• Outline and secure disposal options prior to first case

• Appraisal and Indemnity processes – too slow, and will not be able to be sustained at present level

TB Trace - Dairy Heifer

• 1/20/14 Texas dairy feedlot heifer sent to Missouri grower at 500-600#
• 8/5/15 Sold at Joplin market to Kansas dealer
• 8/6/15 Dealer took her to Eureka market, no-saled her. Transported her to either Syracuse or Hutchinson markets, sold under either his or partner’s name (KDA found tag number on Syracuse market remittance form.)
• 8/7/15 Sold at Syracuse market to feedlot in Johnson, Kansas. According to Johnson feeder, she was sent to Great Bend feeder in one of two possible lots: first lot slaughtered 11/13/15, second possible lot slaughtered 12/2/15.
• 10/27/15 Missouri made Kansas aware of trace
• 12/2/15 Final report on trace results from Great Bend feeder
Export Livestock Health Certificates

Kansas Import Data Challenge

- Continue to encourage use of technology to decrease paperwork
- Need other states to increase electronic exports
mCVI App for Certificates of Veterinary Inspection

- Created by the Institute of Infectious Animal Diseases (IIAD) at Texas A&M University
- Kansas was one of seven pilot states for original iPad-only application
- mCVI available on Apple or Android devices, including phones

Feral Swine Control
Feral Swine Eradication

- Removed 679 pigs in 2015
  - Cowley Co./Kay Co. OK 65
  - Bourbon/Linn counties 385
  - Vernon Co. MO 7
  - Baca Co. CO 5
  - Chautauqua/Montgomery co 217
  - Osage Co. OK

- Removed 172 in 2016 (Bourbon Co.)

Boar Buster
Feral Pig Control

Questions?