

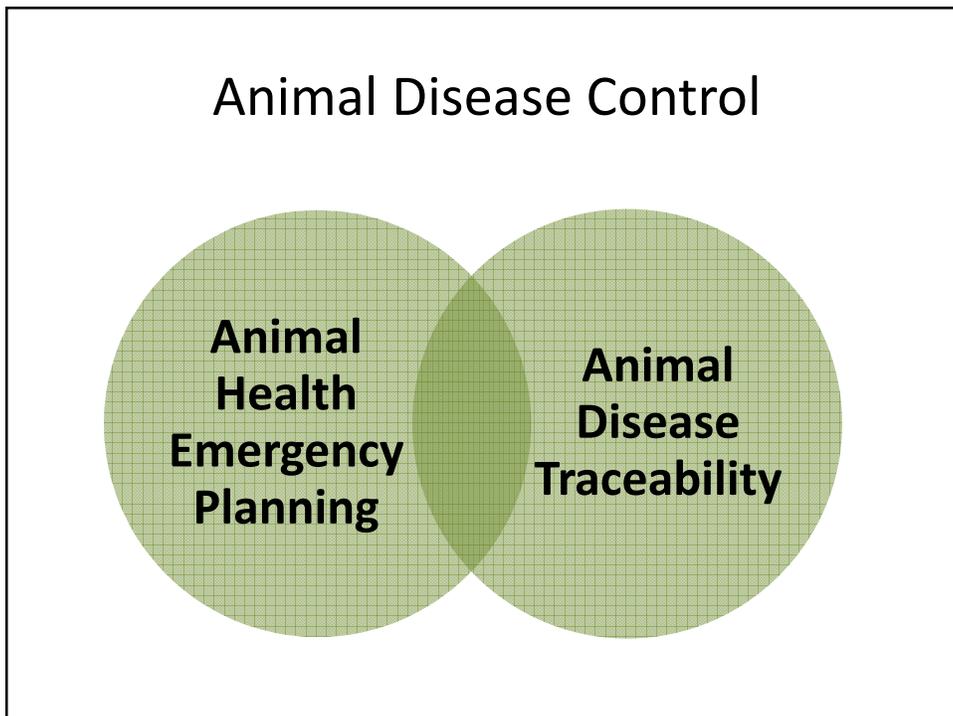


**Kansas**  
Department of Agriculture

Animal Health Division

**Justin Smith DVM**

The image shows two black cows standing in a green field. The cow on the left has a yellow ear tag. The background consists of trees and a cloudy sky.



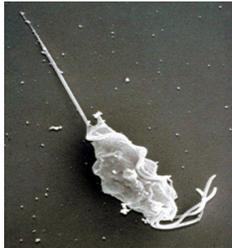
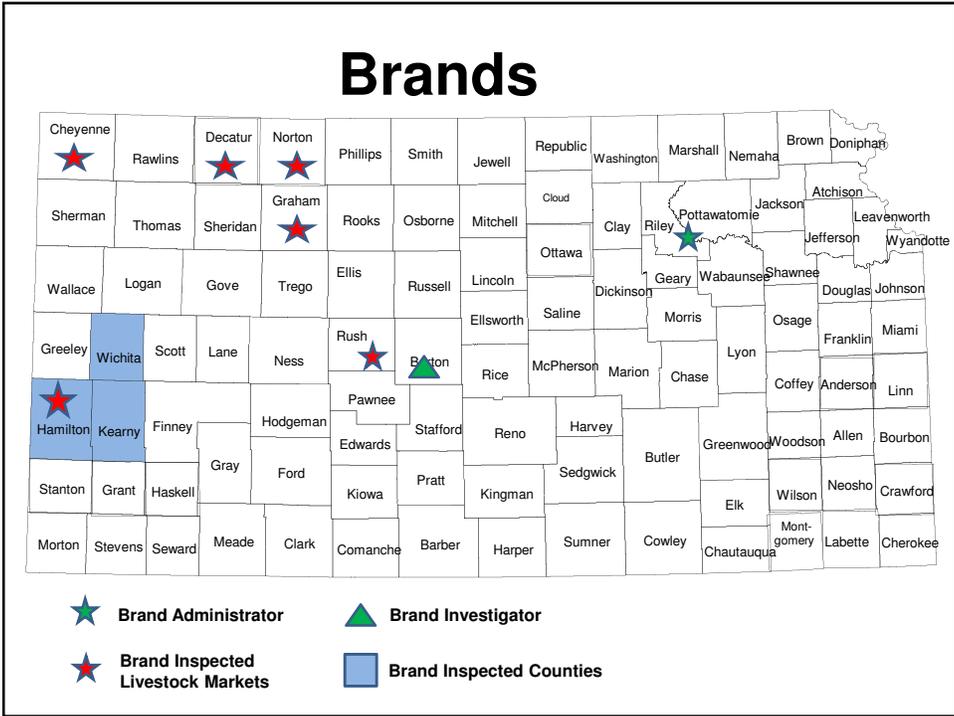
## Current Regulation Changes

- Reportable Animal Diseases
- Trichomoniasis
- Small Animal Regulation Changes
  
- What's Coming?
  - Animal Movement Regulation

## Brand Statute Revisions

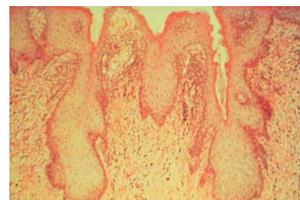
- Brand registration
  - expires and is not renewed within 60 days, it will be forfeited and become available for anyone to register. The current language states the brand would be placed in delinquency status after the 60 days, and then forfeited after 120 days of non-renewal.
  
- The brand inspection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

# Brands

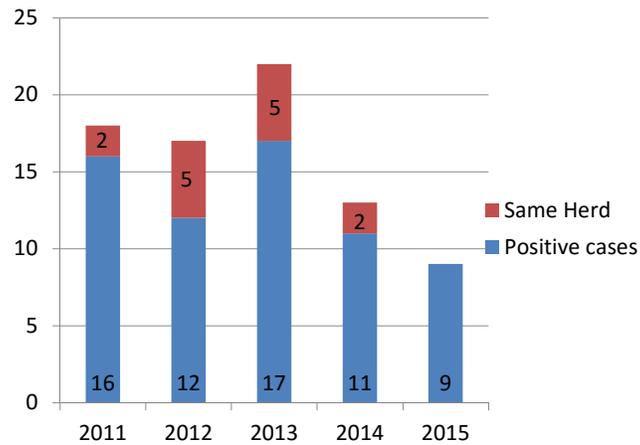


## Trichomoniasis

2015



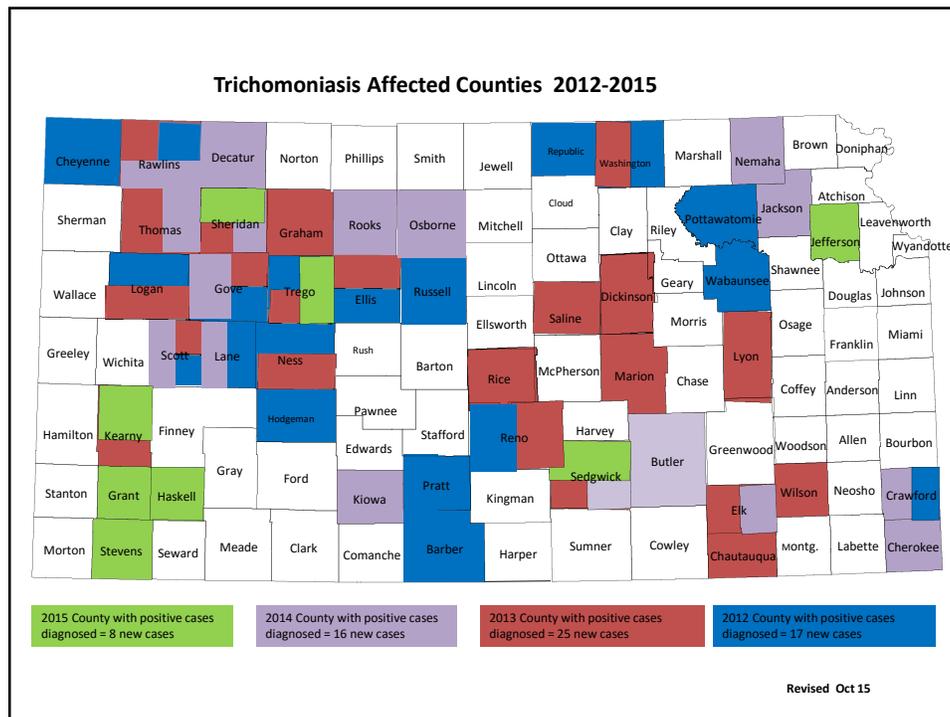
## KSVMDL Positive Lab Accessions



## Trichomoniasis Testing

### Kansas State Veterinary Diagnostic Lab

- 2013 4800 samples – 1.5% positive
- 2014 7000 samples - .35% positive
- 2015 >8000 samples - .2% positive

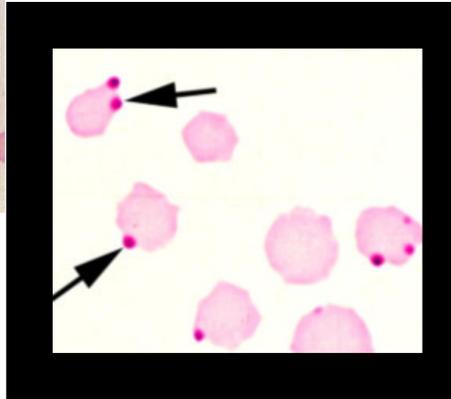
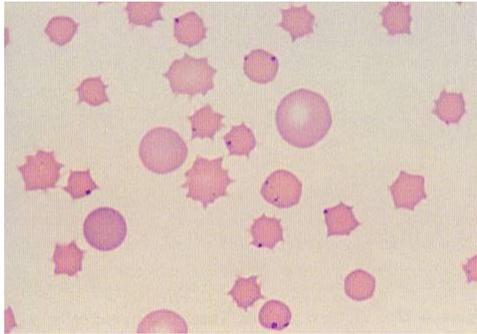


## Trich Regulation Proposed Additions

- 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



## Anaplasma Marginale

- Intraerythrocytic bacteria – rickettsia
- Causes severe anemia and death
  - Cattle, sheep, goats, buffalo and some wild ruminants
- Clinical signs
  - Subclinical < young animals
  - Moderately severe in yearlings to 2 years old
  - Severe - 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

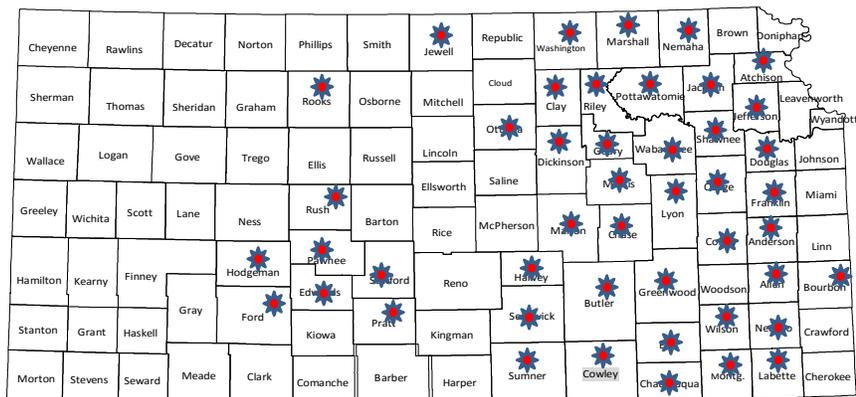
- Transmission
  - Blood sucking vectors
    - Ticks
    - Flies
    - Mosquitoes
  - Blood infected instruments
    - Hypodermic needles
    - Tagging pliers
    - Dehorner
    - OB sleeves



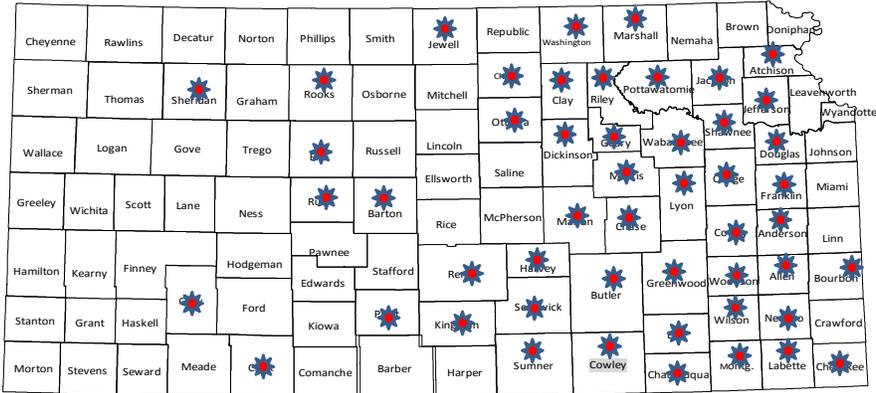
# Anaplasmosis

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

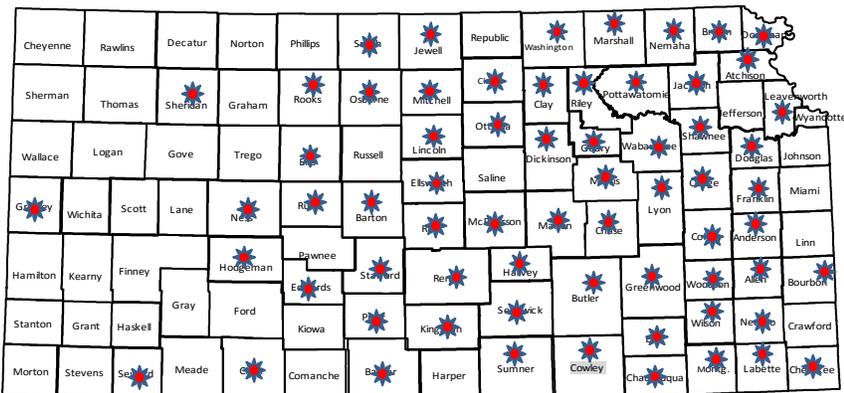
## 2013: Anaplasmosis Positive Counties

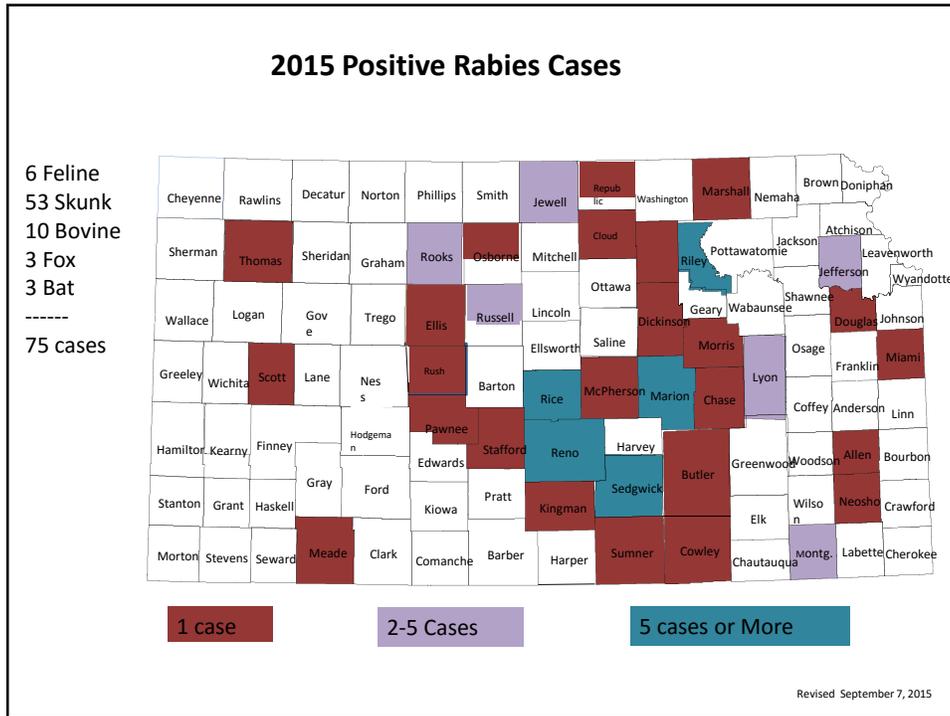


### 2014: Anaplasmosis Positive Counties



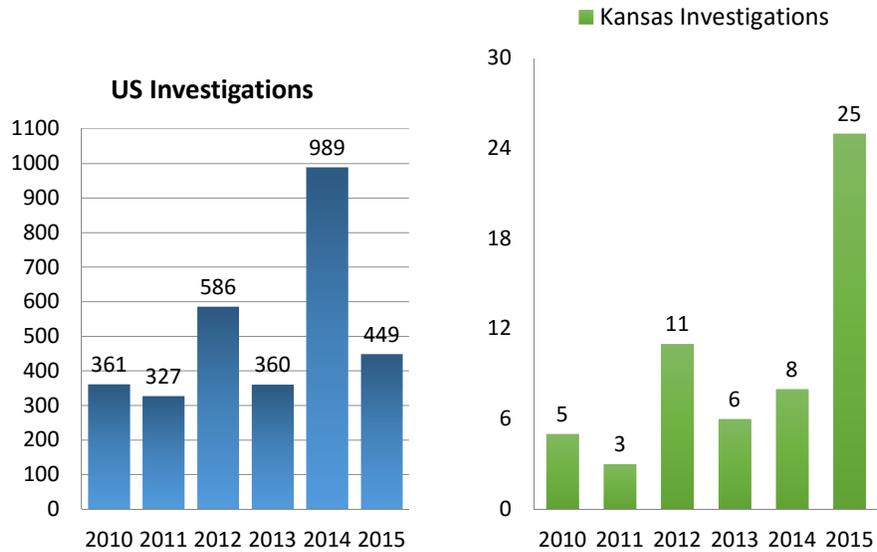
### 2015: Anaplasmosis Positive Counties





- ## 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
    - Pullorum
    - Fowl Typhoid
    - Psittacosis
    - Exotic Newcastle Disease
    - Foot and Mouth Disease
    - Rinderpest
    - African Swine Fever
    - Piropasmosis
    - Vesicular Exanthema
    - Johne's Disease
    - Scabies
    - Scrapie
    - Bovine Leukosis
    - Trichomoniasis
  - Proposed Additions
    - Equine Herpesvirus Myeloencephalopathy
    - Western Equine Encephalomyelitis
    - Eastern Equine Encephalomyelitis
    - Venezuelan Equine Encephalomyelitis
    - West Nile Virus
    - Bovine Spongiform Encephalopathy
    - Chronic Wasting Disease
  - Proposed Deletions
    - Bovine Leukosis

## Foreign Animal Disease Investigations



## Vesicular Stomatitis



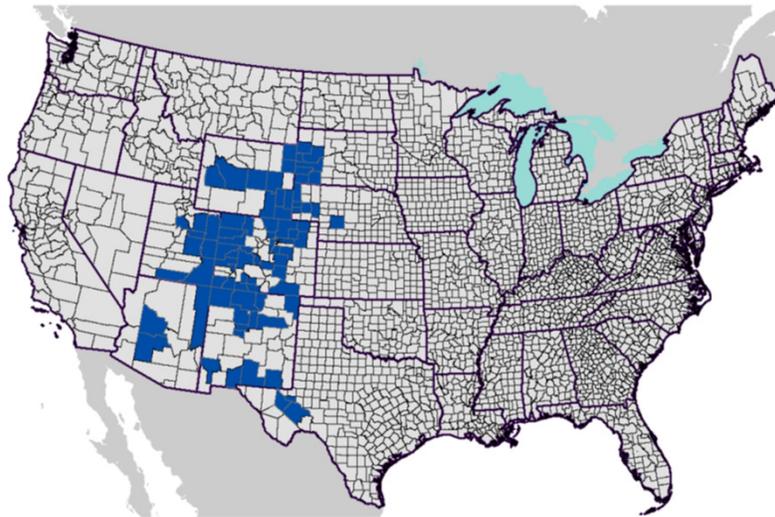
### 2015

- **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

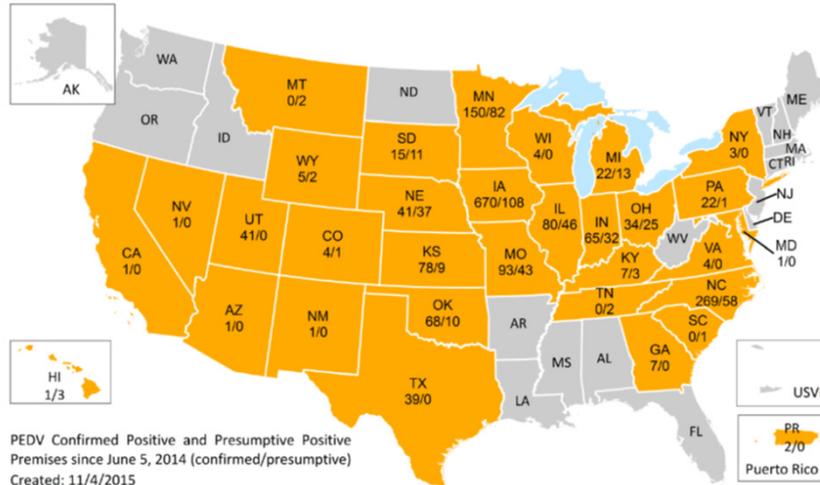


VSV Cumulative: Counties with Premises Quarantined  
April 29, 2015-present



## 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

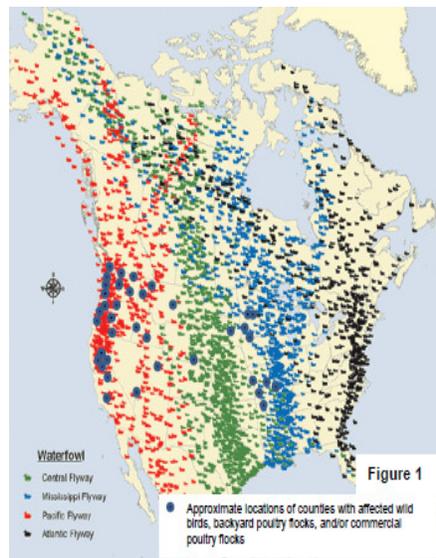


- **Highly pathogenic (HPAI)**
  - Extremely Infectious and fatal
  - Easily spread
  - Can affect humans (H5N2 strain was not infective to humans)
  - US cases were HPAI H5N2
- **Low pathogenic (LPAI)**
  - Minor illness in birds – Possibly no clinical signs
  - Respiratory signs, ruffled feathers, ↓ eggs
  - Capable of mutating to HPAI viruses





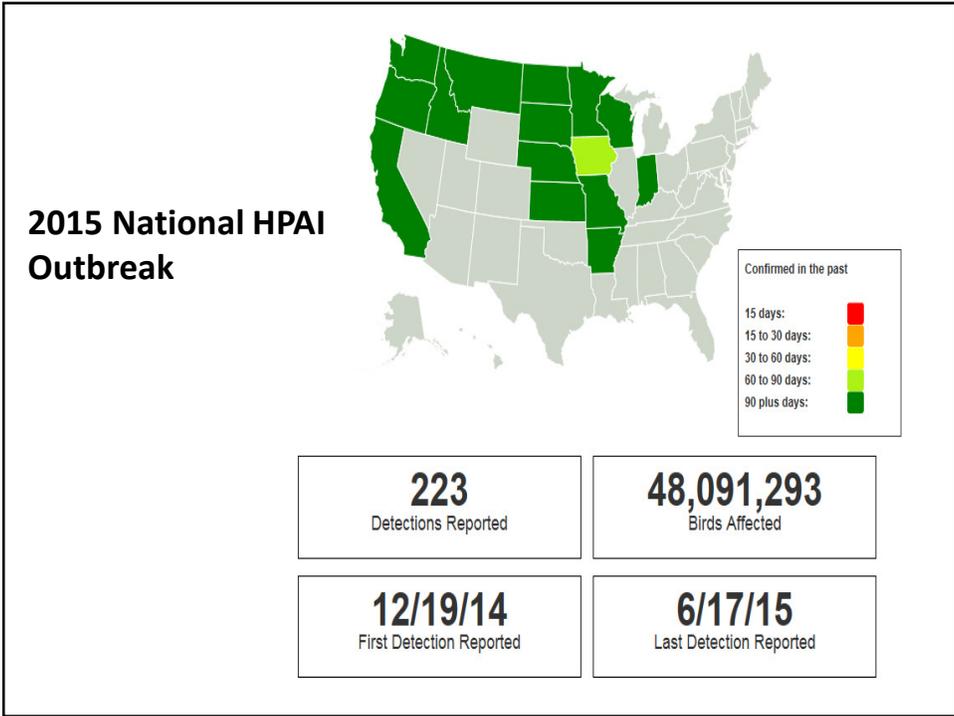
## Migratory Waterfowl Flyways



## 2015 Kansas AI Incidences

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



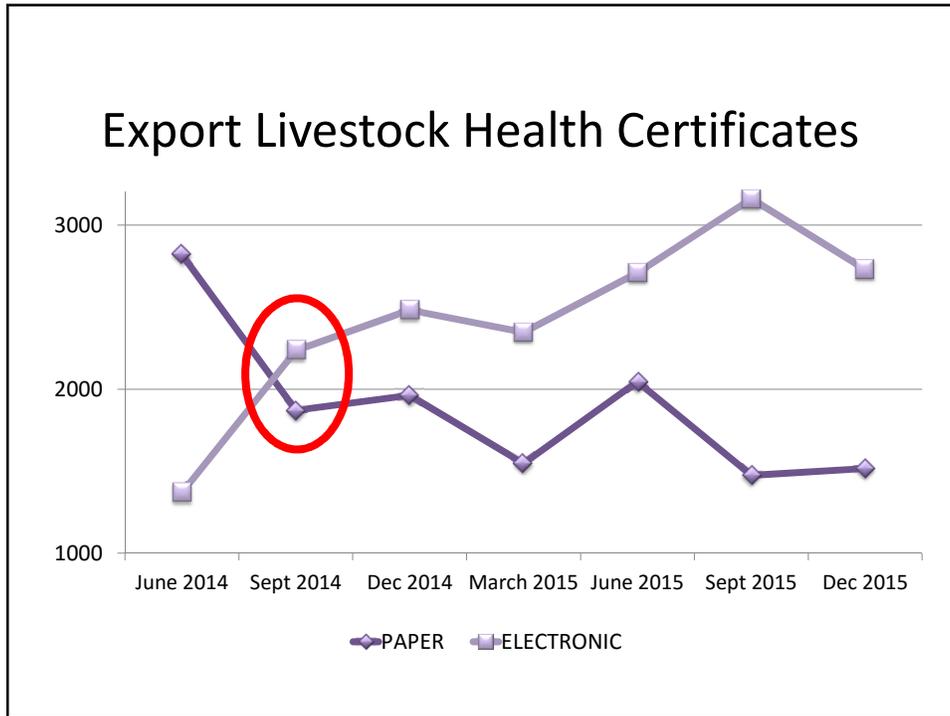


## National Lessons Learned

- 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



### Kansas Import Data Challenge

- Continue to encourage use of technology to decrease paperwork
- Need other states to increase electronic exports

**Import CVIs:  
Continuous backlog  
of paper needing  
data-entry into  
USAHerds**

Category	Percentage
Paper Imports	~80%
Electronic Imports	~20%

## 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?

