

# Swine Enteric Coronavirus Disease (SECD)

What is the Impact from a State's  
Perspective?

SECD International Conference  
Chicago, Illinois  
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# Impact of PEDv Confirmation

- ▶ Initial Actions taken by USDA, State and Industry
- ▶ Regulatory Actions
- ▶ State Impact
- ▶ Industry Impact



# Porcine Endemic Diarrhea (PED)

May 17, 2013

- First confirmed case in the United States
- Identified on an Iowa farm
- Have conducted testing retrospectively and identified positive samples submitted as early as 4/15/2013



# Actions

- ▶ Weekly conference calls
- ▶ Weekly updates
- ▶ Outreach to producers/veterinarians
- ▶ Epidemiological survey
- ▶ Development of various diagnostic test
- ▶ Research



# Extensive Collaboration

## Government

USDA-VS

NAHLN

FDA

NVSL

National Assembly of State Animal Health Officials

CVB

EMD

NCIE

CEAH

## Industry

AASV

NPPC

NPB



# Research

## ▶ Minnesota

- Environmental stability
  - Fresh feces
  - Slurry
  - Drinking water and recycled water
  - Feed
- Epidemiological Study

## ▶ Ohio

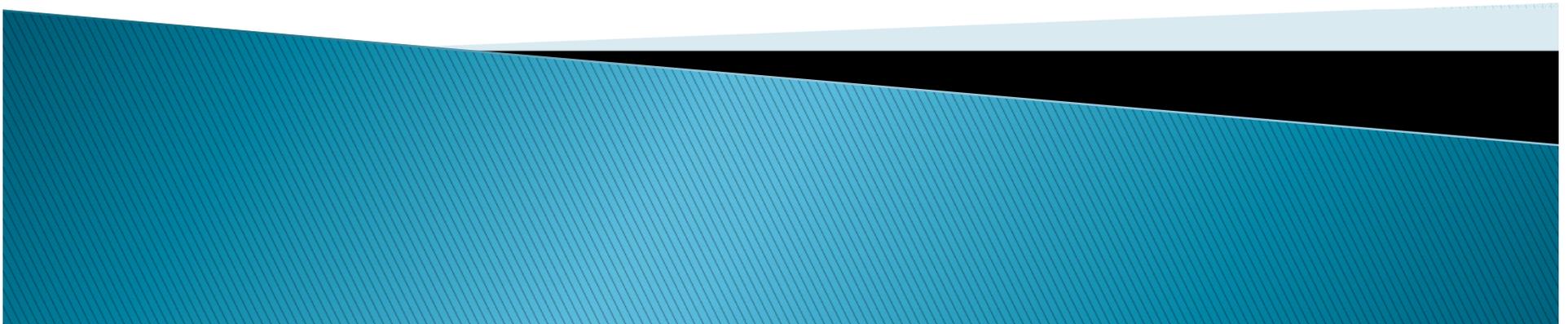
- Testing protocols and methods

## ▶ Iowa

- Utilization of oral fluids for diagnostic testing



# Regulatory Impact



# Events Prior to Federal Order

- ▶ Discovery of Porcine Delta Coronavirus
- ▶ Movement Restrictions by State Veterinarians
- ▶ April 18, 2014
  - USDA held conference call to announce the upcoming federal order
  - Working Group formed to develop PEDv program
    - Composed of producers, industry and state regulatory
    - Timeline—3 weeks



# Federal Order

- ▶ Announced on June 5, 2014
  - Effective immediately
- ▶ Requires
  - Mandatory Disease Reporting
  - Development of Herd Monitoring and Management Plans



# USDA Funding

- ▶ States
  - Cooperative Agreements
- ▶ Veterinary Diagnostic Laboratories
  - Testing for confirmed positive herds
- ▶ Research Institutes
  - Development of Vaccine
  - Development of Diagnostics
  - SECD transmission, etc.
- ▶ Veterinarians
  - Herd plan
- ▶ Producers
  - Biosecurity and Disinfectant



# Disease Reporting Required

Diagnostic Laboratories, Veterinarians and Producers and anyone with knowledge of disease compatible to PEDv or PDCoVs must report the information to USDA or State Animal Health Officials



# Herd Plan Goals

- Collect information to characterize and understand the scope of SECD
- Decrease shedding and spread of PED, PDCoV or other novel enteric coronaviruses from affected herds

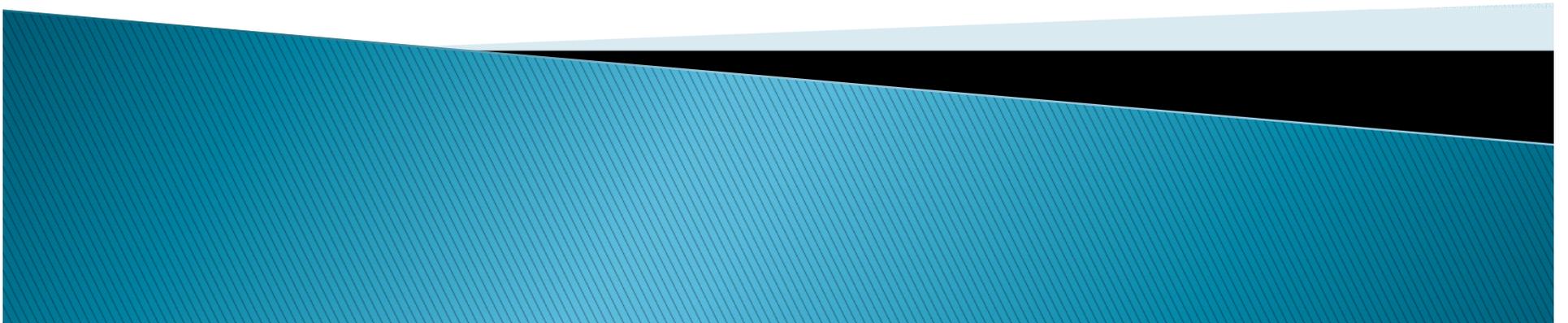


# Messaging to Consumers

- ▶ PEDv is not a zoonotic disease
- ▶ PEDv is not a food safety concern



# Impact on State Regulatory



# Mission Statement

The health of Missouri's livestock is enviable among states. Our stringent animal health regulations and rigorous disease testing help keep Missouri free from costly and threatening livestock diseases. The [Animal Health Division](#), under the direction of the state veterinarian, is responsible for controlling, eradicating and testing for livestock disease in Missouri.





# Initial Impact upon Confirmation of PEDv

- ▶ PEDv was reportable in some states
- ▶ State Veterinarians worked with industry
  - Determine impact on industry
    - Commercial
    - Show Pig
    - Independent producers
  - Outreach to producers
- ▶ Some State Veterinarians were concerned about interstate movement
  - Worked with states to ensure healthy pigs were moving interstate

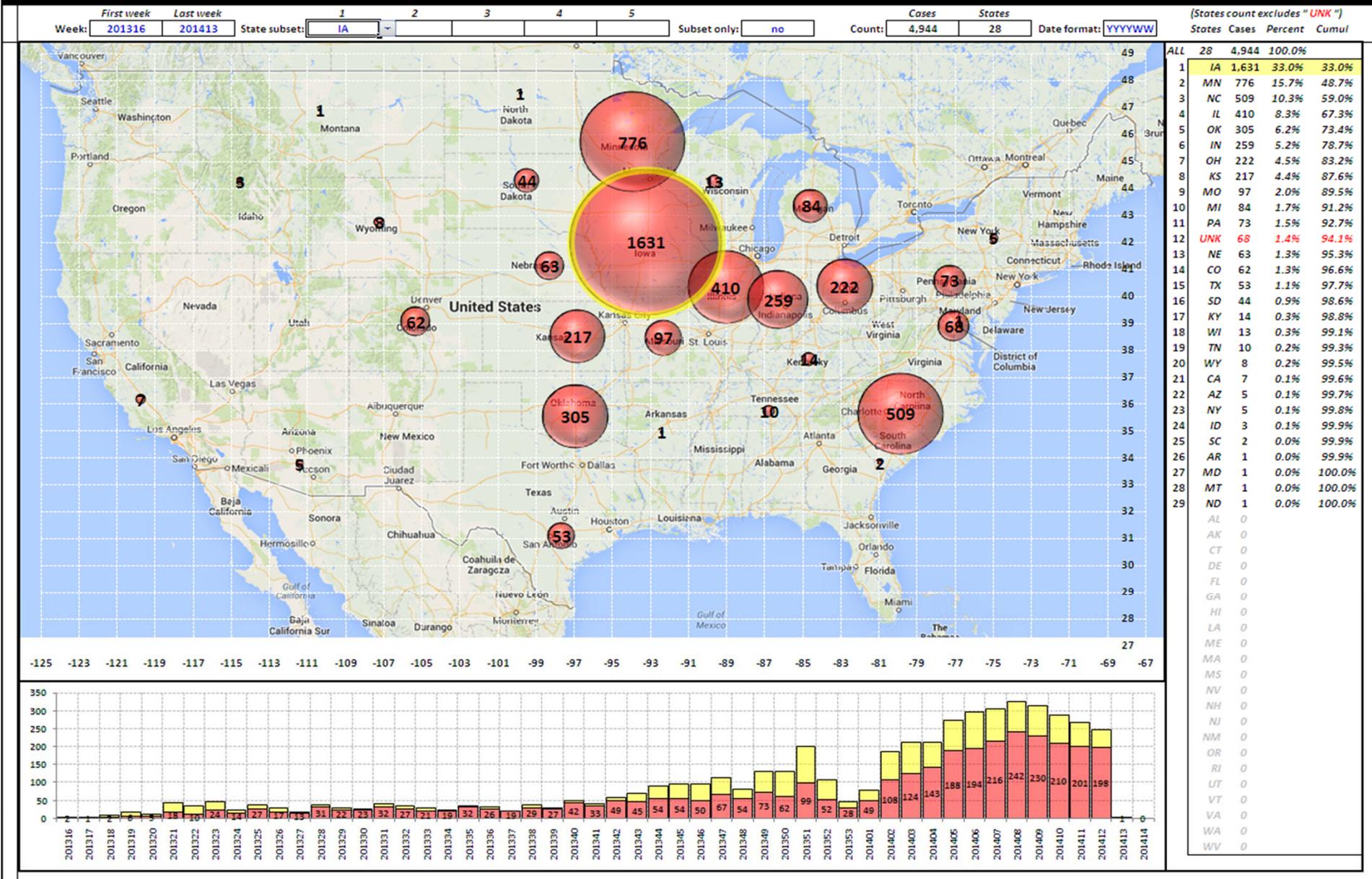


# Missouri Activities

- ▶ 2013
  - Communicated with industry to increase awareness of PEDv and biosecurity standards
- ▶ March 2014
  - Formed a small group to address concerns of show pig industry
  - Distributed information regarding biosecurity to show managers, FFA Advisors, 4-H Leaders, and swine exhibitors
- ▶ April 2014
  - Swine Health Committee
- ▶ June 2014
  - Submitted a SECD Cooperative Agreement to USDA



# NOTE: NAHLN data (current through 28MAR14)



Source: Greg Cline, DVM

# Cooperative Agreement

- ▶ SECD Program Veterinarian
  - Monitors positive submissions
  - Ensure herd plans are submitted
- ▶ District Veterinarians
  - Provide assistance when needed for herd plan
- ▶ Funding for disinfectants
  - Jackpot, county fairs and exhibitions
- ▶ Outreach and Education



# Impact on Industry

- ▶ **Biosecurity**
  - Review of current protocol
  - Enhancement
- ▶ **Financial**
  - Loss of production
  - Increased cost of biosecurity enhancements
  - Cost of diagnostics
- ▶ **Movement Restrictions**



# SECD Impact

- ▶ Promoted communication
- ▶ Enhanced biosecurity
- ▶ Coordinated research activities
- ▶ Herd Plan developed to reduce the spread or transmission of virus
- ▶ Review and analysis of response plans



# Questions / Comments

