Veterinary Services

National Animal Health Monitoring System Update

Bruce Wagner
NAHMS Center Director
U.S. Department of Agriculture
Animal and Plant Health Inspection Service
Veterinary Services
10/21/13
Outline

• What’s new in NAHMS

• Overview of 2013 accomplishments

• What is 2014 going to bring for NAHMS?
New in NAHMS
NAHMS News

• Confidential Information Protection and Statistical Efficiency Act (CIPSEA) unit status for NAHMS

• New Unit within NAHMS: Economic and Epidemiological Modeling
NAHMS News

- Legislation enacted in 2002

- Information collection for *statistical purposes*

- Pledge of confidentiality
NAHMS News

• Complex rules and reporting requirements

• Cannot put anyone in a position where they would reveal participation or data

• Potential fines or imprisonment if violate confidentiality
CIPSEA Activities So Far

• April 2012: recognized as a statistical unit

• Developing processes and infrastructure

• Data collected under CIPSEA in 2013
  – Poultry Layer Study
  – PEDv study with AASV and Univ of Minnesota
  – Dairy Herd Improvement Association Data
Economic and Epidemiologic Modeling

• Unit formed in 2011
• Supports VS’ increasing focus on modeling efforts
• Strategic goals of the Unit:
  – Support disease outbreak preparedness
  – Application of animal disease models
  – Evaluate, acquire, and enhance animal disease modeling tool
  – Training and outreach to domestic and international partners
Accomplishments
National Studies

• Reports: Sheep and Cattle Feedlot

• Data collection: Swine and Layers 2012

• Development of 2014 studies
  – Dairy
  – Captive Cervids
  – Captive Bison
Targeted Studies

• Completed:
  • Dairy Heifer Raiser
  • Urban Chicken Ownership in Four U.S. Cities
  • Poultry Botulism
  • PEDv with AASV

• Development:
  • Additional PEDv
  • Equine Herpes Myeloencephalopathy
  • Antimicrobial Use and Resistance
Ongoing Monitoring

- Somatic Cell Count – indicator of udder health and milk quality

- Dairy Herd Improvement Association Data
Epidemiologic and Economic Modeling

• Foot-and Mouth Disease

• Pilot Study: Evaluating Interspread Plus®

• Economic considerations for the mutual recognition of disease free zones

• Economic impact of potential HPAI outbreaks
2014 Plans
2014 Plans

• Reporting on Swine 2012 and Layer 2013
• Implement Dairy, Cervid and Bison Studies
• Begin preliminary work for Equine 2015
• Antimicrobial Use and Resistance Efforts
• Epidemiologic studies (EHM, PEDv)
• Further develop ongoing monitoring efforts
2014 Plans

• Foot-and-Mouth Disease
  – Vaccination Prioritization and Diagnostic Tools
  – Application of resource constraints
  – Develop Interspread Plus® Standard Model

• Continue to evaluate epidemiological and economic considerations for mutual recognition of disease-free zones

• Participate in Quads comparisons

• Analyze HPAI economics: imperfect competition
Questions?