OVERVIEW OF EMERGING ANIMAL DISEASE PREPAREDNESS AND RESPONSE PLAN

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Veterinary Services Proposed Framework for Response to Emerging Animal Diseases in the United States (EDF)

- Published in 2014
- Outlined 4 Goals

- Respond quickly to minimize the impact of disease events
- Communicate findings and inform stakeholders
- Detect, identify, and characterize disease events
- Undertake global awareness, assessment, and preparedness
Emerging Animal Disease Preparedness and Response Plan

Purpose:

Provide the strategic direction for the Veterinary Services (VS) program of the U.S. Department of Agriculture’s Animal and Plant Health Inspection Service (APHIS) to detect and respond to emerging animal diseases.

Define monitoring, assessment, communication activities and possible response measures for an emerging animal disease occurring in the United States.
Emerging Animal Disease Preparedness and Response Plan

Emerging disease definition:
A disease, infection, or infestation in domestic or wild animals that is a threat to terrestrial animals, aquatic animals, or humans, and meets one of the following criteria:

1. An unknown agent that is causing disease, infection, or infestation in a herd/flock/premises and has the potential to result in a significant animal or public health impact, and applied diagnostic tests have yielded negative or non-definitive results; OR

2. A newly identified agent that is causing disease, infection, or infestation in a herd/flock/premises and has the potential to cause significant animal or public health impact, or is occurring in multiple herds/flocks/premises; OR

3. A previously identified or known pathogenic agent that has a change in epidemiology, such as:
   a) Increased pathogenicity,
   b) Expanded host range,
   c) Change in geography of an agent with the potential to cause a significant animal or public health impact, or
   d) Unexpected morbidity/mortality
Emerging Animal Disease Preparedness and Response Plan

Plan defines 4 risk levels of emerging disease, and factors used to make preliminary assignments of diseases to risk levels.

1. Nominal risk to U.S. animal or public health
2. Potential risk to U.S. animal or public health
3. Impending risk to U.S. animal or public health
4. Current risk to U.S. animal or public health
Emerging Animal Disease Preparedness and Response Plan

Plan defines roles and responsibilities

- **Risk Identification Team**: maintain global awareness and provide preliminary assignments of diseases to risk levels
- **VS leaders**:
  - Review preliminary assignments of diseases to risk levels
  - Determine communications and response options
- **States**:
  - Communicate disease information to VS Assistant Directors
  - Discuss and participate in response
- **Industry**:
  - Communicate disease information
  - Address questions concerning potential disease risks and concerns
  - Discuss response options
Emerging Animal Disease Preparedness and Response Plan

Plan outlines possible response options to be undertaken, depending on epidemiology of emerging disease

International Diseases

- **Risk Level 1 (Nominal risk to US animals or public health)**
  - Provide continual monitoring of emerging animal disease incident and situational awareness updates for VS and stakeholders, as needed
  - Continue to monitor emerging animal disease incident and provide situational awareness updates, as needed
  - Assess preparedness status for introduction (e.g. presence of valid diagnostic tests, vaccines)
  - Work with International Services personnel in relevant countries to get additional information on disease incident
  - Determine need for further evaluation and characterization of incident by an Emerging Disease Team
  - Conduct pathways and import risk assessments, and determine data gaps and needs for additional information to inform high risk entry points
  - Implement import restrictions or increased surveillance, as needed
  - Develop and distribute communication materials to relevant partners and stakeholders

- **Risk Level 2 (Potential risk to US animal or public health)**

- **Risk Level 3 (Impending risk to US animal or public health)**
Domestic Diseases

Risk Level 1 (Nominal risk to US animals or public health)
- Contact diagnostician(s), state and federal partners, and relevant diagnostic laboratories to get additional information and confirmation of disease incident
- Identify needs for and conduct additional research (e.g., animal inoculation studies, additional molecular characterization of pathogen)
- Determine reservoirs, transmission pathways and potential impacts on U.S. animal or public health
- Implement increased surveillance, as needed
- Conduct an epidemiological investigation, as needed to characterize incident
- Develop and distribute communication materials to relevant agency and non-agency partners and stakeholders
- Increase diagnostic capacity, as needed

Risk Level 2 (Potential risk to US animal or public health)
- All options for Category 1
- Increase laboratory diagnostic capacity and distribution of effective vaccines
- Provide guidance to States, industry, and stakeholders for prevention, detection, and response to emerging animal disease

Risk Level 3 (Impending risk to US animal or public health)
- All options for Categories 1 and 2
- Develop a case definition for reporting
- Determine need for and establish regulations and/or new policy

Risk Level 4 (Current risk to US animal or public health)
- All options for Categories 1-3
- Conduct active surveillance (situational dependent) and develop a surveillance plan
- Conduct analytical epidemiologic investigations
- Determine need for and establish regulations for a new program (certification, control, or eradication) or new policies

Standard program, regulatory, and budgetary business practices will be followed.
Emerging Animal Disease Preparedness and Response Plan

Next Steps:

◦ Soliciting input. Comments requested by November 1, 2016


◦ Based on feedback, plan will be updated and finalized by end of calendar year
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U.S. NATIONAL LIST OF REPORTABLE ANIMAL DISEASES (NLRAD)

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National List of Reportable Animal Diseases (NLRAD)

What is it?
- A science- and policy-based, nationally supported standardized list of animal diseases/agents

What will it do?
- Help U.S. assess, respond to, and report zoonotic, endemic, and emerging diseases
- Provide consistency and uniformity
- Meet international reporting obligations
- Support export certifications
## NLRAD History

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2006</td>
<td>USAHA officially identifies need for U.S. NLRAD</td>
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<tr>
<td>2010</td>
<td>U.S. NLRAD and white paper presented at USAHA</td>
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<tr>
<td>2013</td>
<td>U.S. NLRAD informally incorporated into the National Animal Health Reporting System (NAHRS) in cooperation with participating states</td>
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<tr>
<td>2014</td>
<td>U.S. NLRAD concept paper distributed for stakeholder comment</td>
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<tr>
<td>2016</td>
<td>Draft U.S. NLRAD Framework distributed for stakeholder comment</td>
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NLRAD Framework

• Concept papers were drafted by 5 working groups:
  – Laboratory implementation
  – Information release
  – Reporting and data management
  – Roll-out and communication
  – Updates to the NLRAD

• Developed overall NLRAD Framework

• Draft of NLRAD Framework open for comment
NLRAD Framework

NLRAD Framework includes:

• Current U.S. list of reportable animal diseases
• Laboratory case classification and reporting requirements
• Structure and procedures
• List maintenance
• Communication
• Data management
• Information Release
NLRAD Categories

United States National List of Reportable Animal Diseases (NLRAD)

Notifiable Diseases and Conditions
Specific Federal and/or State reporting requirements

Monitored Diseases
Periodic summary reporting

Emergency Incidents
FADs, exotic vectors, and high priority diseases
Immediate Reporting

Emerging Disease Incidents
Reported as soon as a herd or premises is believed to be infected, identified by laboratory diagnosis or knowledge of disease

Regulated Disease Incidents
Reporting in accordance with Federal and/or State regulations and guidance
Where does the NLRAD and Emerging Disease Framework fit in the general context of Comprehensive and Integrated Surveillance (CIS)?

Active surveillance streams:
- Slaughter Plants
- NAHLN
- Wildlife Services
- On Farm
- State labs
- Private labs
- State data from practitioners
- Industry (e.g. NPIP)

Emerging Diseases:
- NAHLN reports of new cases
- State reports
- Practitioners
- Private Labs
- Enhanced Passive surveillance (monitoring trends)

Notifiable Foreign Animal Disease events
- Emergency Incidents

Notifiable non FAD events:
- Regulatory and high priority endemic diseases
- Tuberculosis
- Brucellosis
- Etc.

Monitored disease events:
- NAHRS monthly reporting: presence/absence of disease (enhanced epidemiological information)
NLRAD Next Steps

- Finalize NLRAD Framework
- Draft NLRAD proposed rule and publish for comment
- Publish NLRAD final rule and implement
Questions?

The NLRAD Framework document can be found at:
https://www.aphis.usda.gov/aphis/ourfocus/animalhealth/program-overview/ct_national_list_reportable_animal_diseases

Please submit comments, by December 5, 2016, to:
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