A Guide to the Training and Educational Materials

Introduction

Animal agriculture is an essential component of the U.S. and Iowa’s economy. The impact of an animal disease emergency or outbreak in livestock or poultry could be devastating. Animal disease emergencies can involve any number of diseases that may affect large numbers of livestock, resulting in severe economic consequences, including high death rates or high levels of illness in animal as well as loss of production. Most of these diseases will also have trade implications, including embargos and import restrictions. Some of the diseases may impact human health by illness or by mental health impact from the loss of animals and livelihood.

Rapid response to such a situation will be necessary to stop the spread of the disease and will require interaction between local, state and federal agencies and personnel. Preparedness at the local level will greatly aid in implementing the response and recovery efforts needed for an animal disease emergency and serve to protect animal health, human health and our economy.

These materials were developed to help Iowa communities prepare for and respond to an animal disease emergency. The materials were developed to be delivered and disseminated by county emergency managers, extension specialists or other preparedness trainers to community stakeholders. The involvement of veterinarians in addressing disease specific issues is encouraged.

Audiences
The materials developed were designed for 5 different audiences:

1) Animal Industry
(e.g., producers, farm employees, veterinarians, veterinary technicians, animal-associated industries: feed elevators, livestock transportation, lockers, food processors)

2) Local Government Officials
(e.g., mayors, city council members, county board of supervisors, conservation and natural resources, municipal utilities, local media and marketing groups)

3) Emergency Responders
(e.g., emergency management, law enforcement, fire and HAZMAT personnel, public health, health and human services, human medical professionals, counselors, clergy and other mental health professionals)

4) Local Business Owners
(e.g., financial institutions (banks, credit unions, lending agencies), service industries (U.S. mail, UPS, Fed Ex, other delivery), utility workers, grocery stores)

5) General Public
(e.g., pet owners, K-12 educators, community colleges)

All materials listed can be found on your training CD. The materials are also available on the web at http://www.cfsph.iastate.edu/animal_response/.
Audience Specific Overview PowerPoint Presentations

This folder contains five scripted PowerPoint presentations (.ppt) developed for specific stakeholder audiences. Each slide of the presentation contains speaker notes to guide the trainer. Printable speaker notes are found in the ‘SPN’ (speaker notes) files accompanying the PowerPoint; these can also be used as a study guide. Each presentation addresses similar topics, but to various degrees (depth), depending on the target audience. The basic outline addresses the topics listed in the ‘topic specific PowerPoint presentation’ section below, but presents them in a Prepare-Prevent-Respond-Recover format. The presentations can be customized to reflect county specific information.

A1. Animal Industry
A2. Local Government Officials
A3. Emergency Responders
A4. Local Businesses
A5. General Public

Topic Specific PowerPoint Presentations

These scripted PowerPoint presentations (.ppt) address the specific topics addressed in each of the audience presentations. They are designed to allow you to provide more information on the topic if needed for a specific audience. Each slide of the presentation contains speaker notes. Printable speaker notes are found in the ‘SPN’ (speaker notes) file accompanying the PowerPoint presentation.

S0. Importance of Agriculture
S1. State of Iowa Response Agencies and Plans
S2. Federal Response Agencies and Plans
S3. NIMS and ICS
S4. Response to an Animal Disease Emergency
S5. General Prevention Practices
S6. Managing Disease Risk
S7. Business Continuity
S8. Animal Disease Emergency (ADE) Pathogens (This PowerPoint contains 3-4 slides on each of the high consequence livestock pathogens and serves as a quick overview of the disease)

Educational Handouts

This folder contains several 1-2 page handouts for distribution to audiences after an overview presentation or as an educational tool during planning meetings or exercises.

H1. State of Iowa Agencies, Plans, and Programs
H2. Federal Agencies, Plans and Program
H3. National Response Framework
H4a. National Incident Management System (NIMS) and Incident Command System (ICS)
H5a. Steps in an Animal Disease Emergency
H5b. Quarantine Structure for an Animal Disease Emergency
H5c. Animal Disease Emergencies: Carcass Disposal Methods
H6a. General Disease Prevention Practices for Farms
H6b. Animal Disease Emergencies: Cleaning and Disinfection Overview
H7. Business Continuity Planning
H8a. Disease Transmission Routes
H8b. High Consequence Livestock Pathogens (by species)
H8c. High Consequence Livestock Pathogens Table

High Consequence Livestock Diseases Educational Materials

Technical and overview information on specific animal disease emergency pathogens (also called high consequence livestock pathogens) have also been included. These materials can be incorporated into the overview presentations or be used as just-in-time training in the event of an ADE.

Each disease has a ‘FastFacts’ (one-page overview of the disease written for general audiences), a technical disease fact sheet and comprehensive (more technical) PowerPoint presentation (named as LONG) for more in depth information on each disease. Each PowerPoint slide contains speaker notes to guide the trainer; involvement of your local veterinarians is encouraged to assist you with these topics. Printable speaker notes are found in the ‘SPN’ (speaker notes) files accompanying the PowerPoint, which can be used as a study guide. Information for the following diseases has been included:

<table>
<thead>
<tr>
<th>African Horse Sickness</th>
<th>Equine Encephalitides</th>
<th>Nipah Virus</th>
</tr>
</thead>
<tbody>
<tr>
<td>African Swine Fever</td>
<td>Exotic Newcastle Disease</td>
<td>Peste des Petits Ruminants</td>
</tr>
<tr>
<td>Anthrax</td>
<td>Foot and Mouth Disease</td>
<td>Q Fever</td>
</tr>
<tr>
<td>Avian Influenza (highly pathogenic)</td>
<td>Glanders</td>
<td>Rift Valley Fever</td>
</tr>
<tr>
<td>Bluetongue (exotic)</td>
<td>Heartwater</td>
<td>Rinderpest</td>
</tr>
<tr>
<td>Bovine Spongiform Encephalopathy</td>
<td>Hendra</td>
<td>Screwworm Myiasis</td>
</tr>
<tr>
<td>Brucellosis</td>
<td>Japanese Encephalitis</td>
<td>Sheep and Goat Pox</td>
</tr>
<tr>
<td>Classical Swine Fever</td>
<td>Lumpy Skin Disease</td>
<td>Swine Vesicular Disease</td>
</tr>
<tr>
<td>Contagious Bovine Pleuropneumonia</td>
<td>Malignant Catarrhal Fever (exotic)</td>
<td>Tularemia</td>
</tr>
<tr>
<td>Contagious Caprine Pleuropneumonia</td>
<td>Melioidosis</td>
<td>Vesicular Stomatitis Virus (exotic)</td>
</tr>
</tbody>
</table>

Livestock Disease Prevention Practices

These multi-page documents address prevention measures that producers can use on their farms to prevent introduction of disease before or during an outbreak as well as preventing the spread on or off of their farm. Each document addresses a specific species and contains an assessment checklist to help identify areas requiring attention.

PP1. Cattle
PP2. Swine
PP3. Sheep and Goats
PP4. Equine
PP5. Poultry

County Response Plan Template

Counties must plan and prepare for the roles and activities that may be necessary during an animal disease emergency. To aid with this process a Response Plan Template has been developed. The template is designed as an annex to the county’s local emergency operations plan. Counties will need to identify key assets and hazards, participating agencies, organization, resources and determine factors unique to each
community for inclusion or modification to the template. Also included is a Strategic Planning Worksheet to assist in the planning and developing process.

Local Response Template for Animal Disease Emergencies
Animal Disease Emergency Strategic Planning Worksheet

Animal Disease Emergency Functional Exercises

Once local response plans have been developed, they should be tested to determine vulnerabilities and additional assets, personnel or processes needed to adequately and ably respond to an animal disease emergency. Two tabletop exercises and a functional exercise have been included for this purpose. Moderator and participant versions have been developed for each exercise. The HSEEP Exercises Reporting Form has also been included.

Tabletop Exercise: Foot and Mouth Disease (Moderator and Participant versions)
Tabletop Exercise: Exotic Newcastle Disease (Moderator and Participant versions)
Functional Exercise: Foot and Mouth Disease at the County Fair
Iowa HSEEP_AAR_Exercise Reporting Form

Additional Resources

- CFSPH Public Speaking Handbook: Prepared by Amy Slagell, PhD, public speaking specialist in the Department of English at Iowa State University, this guide provides tips for preparing, developing and delivering effective presentations. The information and suggestions are very useful, even to those with extensive public speaking experience.

- PowerPoint User Guide: This document provides tips and instruction on how to display, design and print your PowerPoint presentations.

CFSPH Background

These materials were developed by the Center for Food Security and Public Health at Iowa State University, with funding from the Iowa Homeland Security and Emergency Management and collaboration with the Iowa Department of Agriculture and Land Stewardship.

- Acknowledgments
  Authors, co-authors, and reviewers for the presentations and educational materials.

- CFSPH Overview
  General information about the Center for Food Security and Public Health and its activities.

- CFSPH Personnel
  Brief biographies of the CFSPH personnel

Blank Presentation

For use when you want to create the SpeakerNote layout (slide on the right/notes to the left) of your customized PowerPoint presentation. The directions in the PowerPoint User Guide: PowerPoint Printing Guide refers you to this file.