Defining EDEN
The Web Site
Beyond the Web
Learning Opportunities
Summary

EDEN
Agrosecurity Education
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Avian Influenza Conference  September 18, 2007

www.EDEN.lsu.edu
Disaster Impacts:

U.S. Disasters costs

$1 to $2 billion per week.
Extension’s Impact:

- All disasters are local
- Extension is local.

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Extension’s Impact:

We have an educational role during the five phases of emergency management.

Mitigation  Response
Prevention  Recovery
Preparedness
What is EDEN?

A multi-state effort

- to share education resources
- to reduce the impact of disasters

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The Beginning

EDEN formed in 1994
- After the North Central floods
- Extension professionals seeking a network

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The EDEN Web Site

- Disaster topics
- Expert contacts
- Land Grants
- Disaster links

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Avian Influenza

Avian Influenza is a disease of wild birds and domestic poultry caused by many different subtypes of Type A influenza virus. The natural reservoir for Type A influenza viruses is wild water birds such as ducks and geese. New influenza A subtypes are continually emerging in the waterfowl population.

Seasonal influenza outbreaks in people, which occur almost every winter, are caused by either Type A or Type B influenza viruses. Influenza Type C infections cause a mild respiratory illness, but are not usually responsible for outbreaks of the flu. Type A viruses are found in both people and animals, whereas Type B

Influenza Subtypes

Influenza subtypes are named for two antigens present on the surface of the virus. These are:

- H (hemagglutinin)
- N (neuraminidase)

There are 16 possible H antigens and 9 possible N

Author(s): Simon Kenyon (IN), Kim Cassel (SD), Tanya Graham
The Membership

- Educators
- Specialists
- Experts
- Liaisons
- Collaborators
- Consultants

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More Than Just a Web Site

When the lights go out, disaster recovery depends on developed and working partnerships.
Working Relationships

- Partner with State & Federal
- Dedicated to CARTS & SARTS
- Work within the CEMP

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EDEN at Work

A National Example: Hurricanes Katrina & Rita

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A State Example

Texas Extension

- Best practices to reduce wildfires
A State Example

New Mexico State Extension:
- Key people ICS/NIMS trained
# Homeland Security

<table>
<thead>
<tr>
<th>Security Category</th>
<th>Urgency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drinking water security</td>
<td>78%</td>
</tr>
<tr>
<td>Food security</td>
<td>64%</td>
</tr>
<tr>
<td>Individual’s role</td>
<td>57%</td>
</tr>
<tr>
<td>Government’s role</td>
<td>55%</td>
</tr>
<tr>
<td>Animal biosecurity</td>
<td>50%</td>
</tr>
<tr>
<td>Personal security</td>
<td>48%</td>
</tr>
<tr>
<td>Farm security</td>
<td>45%</td>
</tr>
<tr>
<td>Financial security</td>
<td>42%</td>
</tr>
<tr>
<td>Plant/crop biosecurity</td>
<td>37%</td>
</tr>
</tbody>
</table>
Homeland Security

A farmer would turn to Extension:

- 1st Choice (79%) – Plant
- 2nd Choice (54%) – Animal
Homeland Security

A provider of online curriculums

- Train-the-Trainer
- Designed to teach educators/agents on pertinent topics
- Provides tools needed to teach the intended audience

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Current Curriculums

Plant Biosecurity Management Course, 2006 Edition - University of Missouri

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Plant Biosecurity Preparedness Plan for U.S. Agricultural Producers

Planning, preparedness, and mitigation tools to fight intentional and unintentional plant biosecurity problems on U.S. farms, orchards, nurseries, and vineyards
Introduction to
Terrorism Against U.S. Agriculture:

Protecting Crops through Plant Biosecurity Management

This slide show was adapted from a December 2003 presentation by James Schoelz, Ph.D., at the Missouri Summit on AgroTerrorism. Schoelz is Professor and Chair of the Department of Plant Microbiology and Pathology at the University of Missouri-Columbia.
Features

- Conduct biosecurity risk assessment
- Map the operation
- Create emergency response instructions
- Perform drills
- Involve others
- Install mitigation efforts
Electronic Form Instructions: Click on the first field (shaded box) and enter the required information. Use your tab key to move to the next (shaded box). To remove a check mark, click on the box again. When you have completed the top portion of the form, save it, and print the complete map by hand. Make several copies of your final map. Place a copy of the map in your emergency mailbox and in at least two other locations on your premises. Note: To create your map on the computer, please refer to the Word help feature to “unlock” the document.
Producers’ roles—continued:

**Preparedness**
- Response
- Recovery
- Mitigation

**Preparedness:** Producers’ activities that help prepare for an appropriate response to a potential biosecurity hazard or problem.
Current Curriculums

OnGuard: Protecting America’s Food System

University of Minnesota
Current Curriculums

USDA Roles in the National Response Plan

- North Dakota State University

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Current Curriculums

Ready Business

A collaborated effort by EDEN and DHS – Purdue University

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Current Curriculums

Pandemic Preparedness for Businesses
- DHS & Purdue University

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Current Curriculums

Pandemic Influenza Preparedness for Faith-Based – CDC & Purdue

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Natural Hazards
All Hazards
Interdisciplinary
Animal Management

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Incident Management
Farm Management
Off-farm biosecurity
Practical Applications
- University of Kentucky

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Expanding National Access

eXtension

- Pioneering Community of Practice
  - Focus: Floods & Agrosecurity
  - University of Maryland on AI

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Get to Know EDEN

Thank You
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