EDEN
EXTENSION DISASTER EDUCATION NETWORK

Defining EDEN

The Web Site

Beyond the Web

Learning Opportunities

Summary

EDEN
Agrosecurity Education

Steve Cain

EDEN Homeland Security Project Director

Avian Influenza Conference **September 18, 2007**

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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
- Prevention
- Preparedness
- Response
- Recovery

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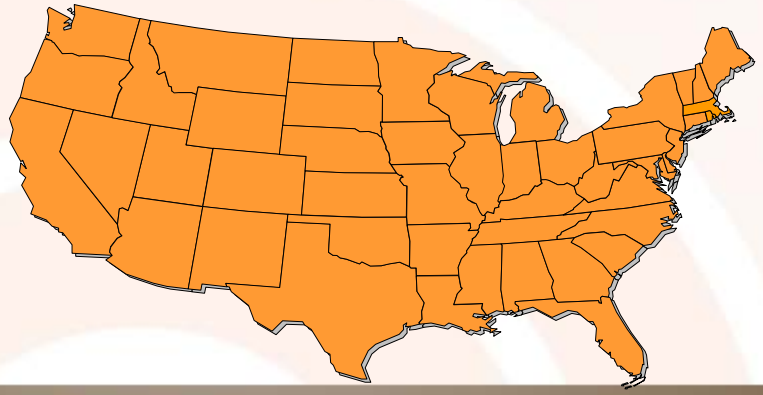
What is EDEN?

A multi-state effort

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



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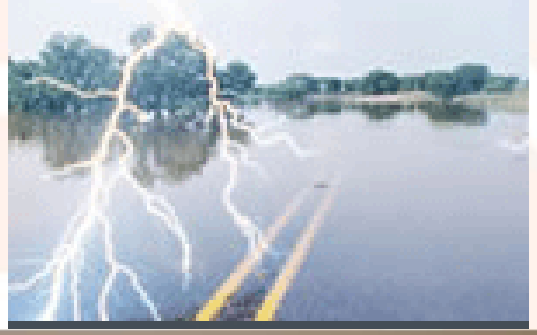
The Beginning

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

Last Edited: 9/11/2007

Avian Influenza H5N1 and the United States
Advice to Flock Owners and the Public
Avian Influenza vs. Bird Flu vs. Pandemic Flu
Avian Influenza Resources

Introduction to 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

Issues
- Agro
- Anth
- Avia
- BSE
- Chil
- Class
- Drou
- Foot
- Hurri
- Mold
- Pand
- Plan
- Storr
- Torn
- Tsun
- West

ster Education Network
su.edu Extension Disaster Education Network - www.eden.lsu.edu

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

Best viewed in MS Internet Explorer:

Hosted by the LSU AgCenter
Louisiana Cooperative Extension Service
Contact Us

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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.

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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

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A State Example

New Mexico State Extension:

- Key people ICS/NIMS trained

ArcView GIS 3.3

File Edit View Theme Graphics Window Help

Scale 1: 41,621

532,553.79
4,474,063.97

View2

- Veterinary Clinics
- Livestock Markets
- Fertilizer and Cher
- Grain Storage
- Animal Feed Supp
- Backyard Poultry
- Cattle Operations
- Commercial Poultr
- Dairy Operations
- Equine Operations
- Mixed Operations
- Sheep & Goat Ope
- Swine Operations
- Gpsclinton.dbf
  - Airport
  - Armory
  - Church
  - Community I
  - EMOC

Identify Results

1: Swine Operations - Kevir

Shape	Point
Cty_id	33
Name_opera	Kevin Deboy
Type_opera	Swine
Grain_stor	No
Status	Full
Address_op	8075 W 800 N
City	Rossville
State	IN

Clear Clear All

Two Mile Radius

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Homeland Security

	Urgent
Drinking water security	78%
Food security	64%
Individual's role	57%
Government's role	55%
Animal biosecurity	50%
Personal security	48%
Farm security	45%
Financial security	42%
Plant/crop biosecurity	37%

Homeland Security

A farmer would turn to Extension:

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

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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 Management Course
2006 Edition

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

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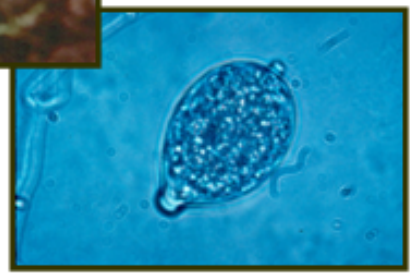
Plant Biosecurity Management Course
2006 Edition

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.

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Plant Biosecurity Management Course
2006 Edition

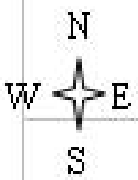
Features

- Conduct biosecurity risk assessment
- Map the operation
- Create emergency response instructions
- Perform drills
- Involve others
- Install mitigation efforts

Map Template for an Agricultural Operation

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 p complete the 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 o locations on your premises. Note: To create your map on the computer, please refer to the Word help feature to "unlock" the document.

Family name or name of operation:					
Street number address:					
GPS coordinates:	☐ DMS ☐ UTM	Latitude:		Longitude:	
Directions:					



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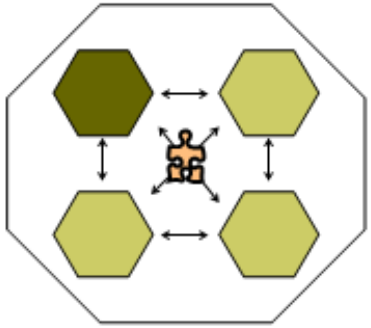
Plant Biosecurity Management Course
2006 Edition

Producers' roles--*continued:*

Preparedness
Response
Recovery
Mitigation



Preparedness: Producers' activities that help prepare for an appropriate response to a potential biosecurity hazard or problem.

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Current Curriculums

OnGuard: Protecting America's Food System

- University of Minnesota

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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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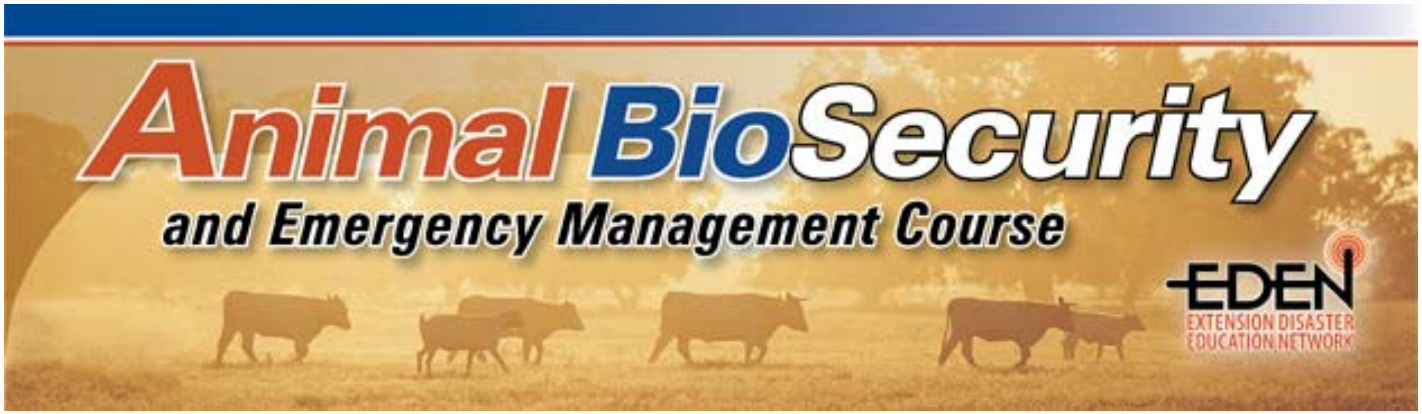

- Natural Hazards
- All Hazards
- Interdisciplinary
- Animal Management

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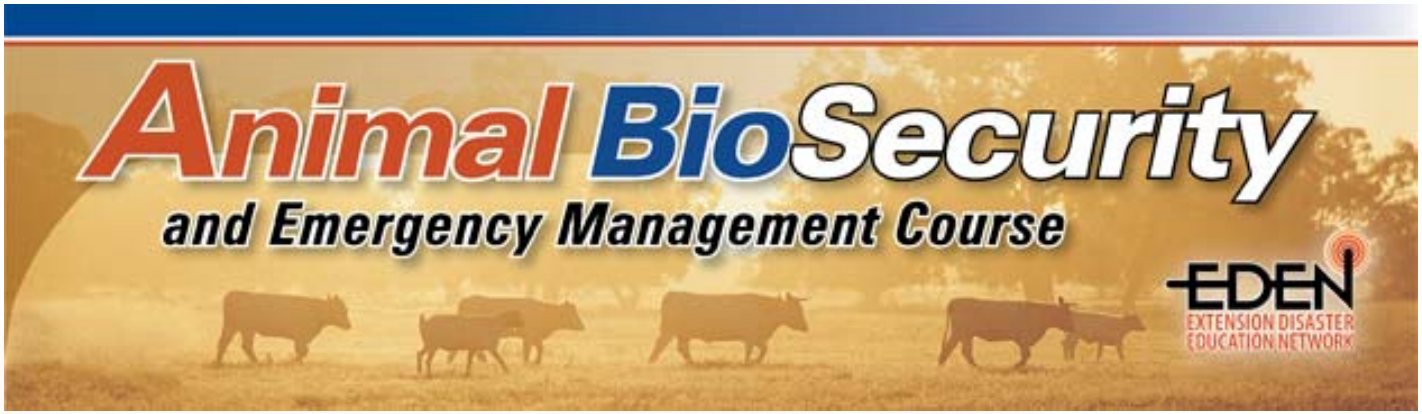

- Incident Management
- Farm Management
- Off-farm biosecurity
- Practical Applications
  - University of Kentucky

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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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