What is EDEN?
Why are we here?

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EDEN Chair

www.EDEN.lsu.edu
Land-Grant System

United States Department of Agriculture
Cooperative State Research, Education, and Extension Service

Land-Grant Colleges and Universities

[Map showing the distribution of Land-Grant colleges and universities in the United States, with the years 1862, 1890, and 1994 highlighted on the map.]
Cooperative Extension Service

What is Extension?

- Federally affiliated with the U.S. Department of Agriculture
- Affiliated with Land- and Sea-Grant colleges and universities in every state
- Serves every county in the country
- Takes university research to the people through informal education
- Runs the 4-H Clubs, the Master Gardener Program, and many more
Cooperative Extension Roles

- Agricultural & Food Biosecurity
- Agricultural Systems
- Animals & Animal Products
- Biotechnology & Genomics
- Economics & Commerce
- Education
- Families, Youth & Communities
- Food, Nutrition & Health
- International
- Natural Resources & Environment
- Pest Management
- Plants & Plant Products
- Technology & Engineering

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The Beginning

- Formed in 1994 following the North Central floods when Extension educators recognized a need for a network that could share education resources.
What is EDEN?

A collaborative multi-state effort by Land-Grant institutions across the country to share education resources to reduce the impact of natural and man-made disasters through:

- Interdisciplinary and multi-state research and education programs addressing disaster mitigation, preparation, response and recovery;
- Linkages with federal state and local agencies and organizations;
- Anticipation of future disaster education needs and actions;
- Timely and prompt communications and delivery of information that meets audience needs;
- Credible and reliable information

What is EDEN?
The EDEN Web Site

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

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More Than Just a Web Site

When disaster strikes

- Recovery depends on developed and working partnerships.
Extension Disaster Education Network (EDEN)

Established Partnerships

- DHS
- FEMA
- VOAD
- State Departments of Agriculture
- State Departments of Health
- State and Local Emergency Management

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If you would like to have the EDEN News and Features sent to your web browser, without an e-mail alert, you can subscribe to the feed. To set up the feed to your internet browser, follow these steps:

1. Click on the orange feed icon at the bottom right of this recent news list below.
2. You should then see a page that contains the latest News and Features; there should be a yellow box at the top of the page in which there is a description of the feed and a link labeled: “Subscribe to this feed”.
3. Click on the “Subscribe to this feed” link. In the dialog box the feed generator will suggest a name and location for placing the feed in your browser.
4. Save the information.
5. To see if it’s working, look for the name you chose in the “Feeds” section of the “Favorites” folder in your browser.

Recent News Articles

EDEN Receives USDA/CSREES Partnership Award
The Extension Disaster Education Network (EDEN) has received the USDA/CSREES Partnership Award for Effective and Efficient Use of Resources.

Hazards Center taking Apps for Quick Response Grants
The Natural Hazards Center is accepting proposals for the 2010 Quick Response Grant Program until November 15, 2009. The program provides funds for researchers to quickly travel to disaster-affected areas to capture perishable data.

PERI Releases Citizen Corps Volunteer Liability Guide
The Public Entity Risk Institute (PERI) has developed, with FEMA funding, the Citizen Corps Volunteer Liability Guide to provide an overview of liability issues and to suggest some approaches to addressing liability.

EDEN Webinar: H1N1 Pandemic Preparedness
EDEN hosted its first Webinar on Tuesday, August 25. A total of 45 participants (extension and non-extension) logged on to view the presentations.

Influenza Roundup - from CIDRAP
The government has issued recommendations on priorities for flu vaccination against the novel H1N1 flu strain. In addition, the risks of novel H1N1 flu in pregnant women have come to light. Links to information on influenza have been organized by CIDRAP.

Foreign Animal & Emerging Diseases
The Center for Agriculture and Food Security and Preparedness will host a week-long training course on Foreign Animal and Emerging Diseases (FAED) August 3-7, 2009.
EDEN at Work

A National Example:

Hurricanes Katrina & Rita
A National Example

- BSE- Mad Cow

(December 2003) Within 24 hours of the confirmed BSE case, EDEN had developed and posted a Web page with up-to-date information, in addition to resources from EDEN member states and USDA agencies.
Food Safety and Defense

Introduction

Each day, Americans depend on a complex system to provide safe, wholesome and nutritious food. This system, as it ranges from producers, to processors, to foodservice and retail establishments, and finally to the consumer, has a responsibility for keeping food safe.

We must be cognizant of intentional acts of food contamination. Food Defense involves activities associated with protecting the nation's food supply from deliberate or intentional acts of contamination or tampering, and should be incorporated into every food establishment's policies and procedures.

The primary objectives of food safety educators is to provide pertinent food safety information to each of the segments in the food system and to work with regulatory agencies to ensure that each of these segments understand the regulations and guidance that apply to them.

Current Food Safety Issues

Nestlé Cookie Dough Recall

(6/22/09) It is still unknown how E. coli O157:H7 could contaminate cookie dough. At this point, the recall is a voluntary recall in that there has not been a definitive link, although there appears to be a
Impacts of a Food Recall

A Single Supplier: An Overview of PCA

The Peanut Corporation of America (PCA) peanut recall of 2009 demonstrates the impact that a single ingredient supplier can have on the food system – even a small ingredient supplier such as PCA. Though PCA first issued the recall back in January of 2009, companies were still issuing recalls related to the peanut ingredients purchased from PCA or someone they supplied into April of 2009. This demonstrates the importance that food establishments have a good, verified traceability system.

PCA, as a manufacturer and supplier of ingredients, did not receive the attention needed in supplier approval and management process. In this case, the manufacturers who used PCA products as an ingredient within their own products, many relied on third party audits as part of the supplier approval process. The third party audits as well as the state inspections graded this plant as satisfactory. These audits did not sufficiently identify the microbiological risk associated with this peanut product. Therefore, here are some things to keep in mind:

- It is imperative that food establishments understand the risk associated with their ingredients, as well as manage their suppliers to control those potential risks.
- Even small suppliers can affect a large amount of product and thus reach an even larger amount of customers.
- Third party audits do serve a purpose but, because of how most are completed today, the ability to properly identify microbiological risks is limited.
- Companies need to have adequate insurance for food borne illness liability and recall. For example, with numerous lawsuits being issued, PCA has filed bankruptcy/leaving state and federal agencies to handle the recall process. If companies are counting on recovering their losses through suing a supplier such as this, it may probably never happen.

Unlike most, if not all of the other major food related outbreaks over the last few years, it is important to note that this case was more than an oversight, it was an intentional act to ship contaminated product. This demonstrates the need for food safety education, especially if it can be directed to the decision makers within food establishments.
Extension Disaster Education Network (EDEN)

A State Example

North Dakota -
EDEN POC:
Becky Koch (NDSU)

- Flood of April 2006

Photo Credit: Associated Press
Extension Disaster Education Network (EDEN)

A State Example

Indiana - EDEN POC: Steve Cain (Purdue)

- Flooding of 2008
- Tornadoes of November 2005

Photo Credit: Lora Douglas, Flatrock, IN
Severe Storms and Flooding resulted in 1/3 of the counties declared Federal disaster areas (June 2006)
Online Curriculums

Objectives:

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

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%
Rationale

The results illustrated the need for creating two courses:
Expanding National Access

EDEN Pioneer Community of Practice

- Focus:
  - Floods & Agrosecurity

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Other Curriculums

- OnGuard: Protecting America’s Food System
- USDA’s Roles in the National Response Plan
- Ready Business – Preparing a Disaster Business Plan
Other Curriculums

- Pandemic Preparedness for Business
- Pandemic Influenza Preparedness for Faith-Based Organizations
-- OnGuard: Protecting America's Food System --

Resources to Educate the Public about Food Protection and Defense

Designed to be taught at the local level by Extension educators and specialists, this course was created for the general public to help them better understand their role in food protection.

Access the Course

This course will enable Extension professionals to teach consumers about:

- how specific food products are created and how they move through the food system;
- how our government protects against threats to the U.S. food system;
- food-related actions your family can take to prepare for any type of disaster or emergency;
- what consumers and agricultural producers can do to protect against intentional threats to our food system; and
- lessons learned from actual cases of intentional attacks on our food systems.
By the end of a conference, attendees will be able to describe the roles of Extension and other agencies/organizations in an animal agrosecurity event within their region. Conference attendees will be able to identify key roles and players in:

- Emergency and disaster management in an animal agrosecurity event
- Education during all phases of emergency and disaster management
- Partnership development within and across states
- Crisis communication related to an animal agrosecurity event
- State animal response team development
- Educational program and material development/delivery for an animal agrosecurity event
Regional Animal Agrosecurity Conferences

With support from the USDA-CSREES, EDEN offered six regional animal agrosecurity conferences during 2007 and 2008. The goal of these regional conferences was to understand the role of Extension, and other stakeholders in an animal agrosecurity event. The following is a brief overview of the conference outcomes.

Preconference Perception of Extension’s Role
Prior to the conferences, the understanding of Extension’s role in such an event was lacking and inconsistent. Differences in perspectives existed within state systems, as well as among county educators in the same state.

Understanding of Extension’s Role During and After Conferences
Internally – All conferences attendees agreed there is a need for additional, more consistent, and higher quality agrosecurity training for extension professionals. Many regions took the opportunity to identify who, within each state’s Extension system, would play an active role in an animal agrosecurity incident, but lack the necessary training. In addition, key administrative personnel attended, which (1) allowed them to see the importance of Extension’s role; and (2) begin the necessary discussion regarding expectations of their Extension staff, as well as the educators’ diverse abilities at the county level.

Externally – With multiple players from the local, state, and national/federal levels present at the conferences, the individual roles and the opportunities to collaborate at all levels and all phases (with and without Extension) were identified. As Extension’s ability and capacity was more clearly defined, collaborators agreed that Extension should play a critical role, and be included in the emergency management framework. For example, the typical rapport that Extension has with local producers, identifies the local educator/agent as the logical first contact in a response effort.

Where Does Extension Go From Here?
An internal discussion within each state’s Extension system needs to take place to better understand and collectively define Extension’s role in an animal agrosecurity event. This may involve working with collaborating agencies and organizations to better define that role as it fits into the comprehensive emergency management plan. In addition, Extension administrators are encouraged to provide support to field staff to take a more active role in preparedness education for producers, prepare plans of work, and promote cooperation across state lines. Overall, more consistent and quality agrosecurity training opportunities need to be made available for Extension professionals to fulfill the understood role.

EDEN Can...
- Continue to provide opportunities, such as regional conferences, that encourage multi-agency coordination and an understanding of Extension’s role in an animal agrosecurity event.
- Continue to provide curriculum/training events.
- Promote discussion among EDEN members via various media (i.e., Webinars and teleconferences).
- Task the EDEN agrosecurity committee to provide leadership for future directions and efforts.
- Provide guidance in the development of competencies for Extension in agrosecurity.
- Be proactive in enhancing relationships between and among various agencies that also have a role in animal agrosecurity.
- Partner with other agencies to facilitate multi-agency jurisdictional training opportunities.

Productive Outcomes (to date)
Midwest – Several attendees plan to increase cooperation across agencies and involve Extension in agrosecurity planning. Participants learned of available training that would qualify them to participate in agrosecurity functions.

North Central – In a 30-day post-conference survey of all participants, 86% of participants had used information received at the conference at the conference and 52% had changed or enhanced their animal agrosecurity related activities.

Continued on back...
Describe the roles of federal, state, and local government agencies/organizations before, during and after a food safety advisory.

Identify consumer actions that should be taken based on official information and describe potential sources of consumer misunderstanding.

Describe the historic emphasis of media messages during a food safety advisory.

Suggest possible roles for cooperative extension and other university experts that can bolster the quality and effectiveness of food advisory messages.
The FUTURE:

- DHS farm regulations
- SCAP
- Food Security Workshops
- ICS-NIMS for Extension
- Growing EDEN by program area
EDEN Works: A National Network

EDEN Points of Contact

<table>
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<tr>
<th>State</th>
<th>EDEN Contact</th>
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<tbody>
<tr>
<td>Alabama</td>
<td>Virginia Morgan (UA)</td>
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<td>Alaska</td>
<td>Linda Tannell (UA)</td>
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<td>Arizona</td>
<td>James Christenson (UA)</td>
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<td>Arkansas</td>
<td>C. Michael French (UA)</td>
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<td>California</td>
<td>William Frost (UG)</td>
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<td>Colorado</td>
<td>Tom McGee (CSU)</td>
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<td>Connecticut</td>
<td>Bruce Wilbur (UCONN)</td>
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<td>Delaware</td>
<td>Michael Low (UD)</td>
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<td>Florida</td>
<td>Carol Lehtila (UF)</td>
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<td>Georgia</td>
<td>John Worley (UG)</td>
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<td>Hawaii</td>
<td>Wayne Nakajima (UC)</td>
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<td>Tom Karksy (UG)</td>
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<td>Illinois</td>
<td>Rick Abberger (IL)</td>
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<td>Indiana</td>
<td>Steve Cain (Purdue)</td>
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<td>Iowa</td>
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<td>Kansas</td>
<td>Mary Lou Peter-Schicha (KSU)</td>
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<td>Kentucky</td>
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<td>Pennsylvania</td>
<td>Dave Filion (PSU)</td>
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<td>Peter August (URI)</td>
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<td>South Carolina</td>
<td>Robert Becon (SCSS)</td>
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<td>South Dakota</td>
<td>Howard van Dijk (Creighton)</td>
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<td>Tennessee</td>
<td>Timothy Prother (UT)</td>
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<td>Texas</td>
<td>Kyle Smith (TAMU)</td>
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<td>Utah</td>
<td>Kristine Saunders (USU)</td>
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<td>Sam Comstock (UV)</td>
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<td>Jenny Fertig (WVSU)</td>
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<td>Wisconsin</td>
<td>Peter Marshall (WVC)</td>
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<td>Wyoming</td>
<td>Patrick Walsh (WU)</td>
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Get to know your state EDEN Contact

www.eden.lsu.edu

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- Vice Chair: Virginia Morgan (Auburn)
- Secretary: Rick Atterbury (Univ. of IL)

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- Dennis Kopp (CSREES)
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