2008 CSREES Review: Extension Disaster Education Network

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Introduction

- Review Objectives
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Review Objectives:

In February 2008, the Extension Disaster Education Network (EDEN) had a formal review conducted by the Cooperative State Research, Education, and Extension Service (CSREES). This document was developed in order to bring the review team to a thorough understanding of EDEN in its entirety.

USDA/CSREES program reviews are done for several purposes. Reviews are part of the agency’s responsibility to Congress in managing its programs. While most program reviews are department or unit focused, CSREES is also committed to issue-based reviews which involve collaborative units and cooperative activities. This approach reflects the federal emphasis on high-priority problems and issues while reviewing current resources, future needs and considering the needs of constituents. The program review of EDEN is such an example.

The Agency believes the EDEN program review:
• Is important in assessing current strengths, identifying future opportunities and recommending appropriate strategies for enhancing the program;
• Can have a positive impact on program quality;
• Can provide CSREES staff with an important understanding of the dynamics of the program;
• Can encourage program advancement for EDEN;
• Can expose review team members to new ideas in program management and resource utilization; and
• Can provide CSREES with current and comprehensive information useful in responding to Congressional inquiries related to the investment of federal funds in support of excellence in programming.

The following individuals made up the EDEN Review Team:

Nayda Torres (Review Team Chair) Program Leader, Extension Family and Consumer Sciences Programs, University of Florida Extension

Clyde Chesney Administrator, Tennessee State University Cooperative Extension Program

Sebastian Heath Senior Program Analyst, Department of Homeland Security

Mike Lambur Professor, Agricultural and Extension Education, Virginia Tech, and eXtension Evaluation and Research Leader

John Snyder Public Affairs Specialist, CSREES Communications
About EDEN

• Overview
• Partnerships
• Operating Guidelines
• 2007-2008 Goals
• Executive Committee
• EDEN Committees
• Points of Contact
• History
• Financial Overview
• Web Site
EDEN Overview

Out of the muddy waters of the 1993 Midwest floods – which cost more than $20 billion in damages to the United States – rose the need for Extension to organize and share resources for disaster education. Most responders will agree that the prominent need of victims in a disaster is information on how to survive or recover. Next, comes the need for information on safe water, food, medicine and shelter. Extension has information relative to all these topics, so EDEN’s goal is to reduce the impact of disaster through education. Because all disasters are local, the network is aimed to provide county-based educators with tools they need to help communities deal with disaster issues.

The real success of EDEN can be seen in how its delegates share and use educational resources at the state level. The Success Stories on pages 47-79 are the latest examples of EDEN work in disaster issues at the state level.

EDEN successes can be measured in many ways.

• Building the network that Extension and Sea Grant directors/administrators from all 50 states and three U.S. territories see as vital to their local programming efforts
• Developing a professional organizational structure to share educational materials and expertise
• Creating a Web site that includes Issue pages, complete course material, organizational information, and a database of cataloged resources from member institutions
• Being an eXtension Pioneer Community of Practice, focusing on agrosecurity and flooding information
• Developing six courses:
  ◦ *Plant Biosecurity Management*
  ◦ *OnGuard: Protecting America’s Food System*
  ◦ *Ready Business* (in cooperation with national DHS)
  ◦ *Pandemic Preparedness for Business*
  ◦ *Pandemic Preparedness for Faith Based Organizations* (in cooperation with CDC)
  ◦ *USDA’s Roles in the National Response Plan*
  ◦ *Animal Biosecurity and Emergency Management* (to be released in January)
• Hosting regional, animal agrosecurity conferences to better develop Extension’s role and develop partnerships nationwide
• Providing instant educational response to major U.S. potential and actual disasters:
  ◦ 9/11
  ◦ Sudden Oak Death
  ◦ BSE
  ◦ Hurricanes Katrina and Rita
  ◦ Soybean Rust
  ◦ A reaction to Foot and Mouth Disease in Great Britain

The growth of EDEN from a North Central regional group to a national organization, as well as the addition of the Sea-Grant System in 2007, is testimony to the value of the network and that it has a place in local programming. In addition, much of the work and success comes from EDEN delegates around the country finding time in their already-busy schedules. Only since 2002 has EDEN had four part-time staff members dedicated to EDEN work.
EDEN has 211 delegates who have expertise in more than 75 different disciplines, which is a strength and weakness of EDEN as an organization. It is a strength because it provides the depth of knowledge to address many questions and issues; and it is a weakness because it is challenging to meld this diverse group within an organization. The following is the latest list of expertise areas represented by delegates:

<table>
<thead>
<tr>
<th>4-H Programs</th>
<th>Family Studies</th>
<th>Nutrition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag &amp; Farm Safety</td>
<td>Farm Operations</td>
<td>Organic Agriculture</td>
</tr>
<tr>
<td>Agronomy</td>
<td>Financial Security</td>
<td>Plant Sciences</td>
</tr>
<tr>
<td>Agrosecurity</td>
<td>Fish &amp; Wildlife</td>
<td>Precision Farming</td>
</tr>
<tr>
<td>Air Quality</td>
<td>Food Processing</td>
<td>Public Safety</td>
</tr>
<tr>
<td>Animal Mortality Mgmt.</td>
<td>Food Safety</td>
<td>Public Service Programs</td>
</tr>
<tr>
<td>Animal Sciences</td>
<td>Forestry</td>
<td>Publications</td>
</tr>
<tr>
<td>Biosecurity</td>
<td>Formula-Funds Admin</td>
<td>Range/Grasslands</td>
</tr>
<tr>
<td>Children</td>
<td>Gerontology</td>
<td>Rural/Comm. Dev.</td>
</tr>
<tr>
<td>Coastal Processes</td>
<td>GIS Mapping</td>
<td>Seaways</td>
</tr>
<tr>
<td>Communication</td>
<td>Health &amp; Safety</td>
<td>Service Learning</td>
</tr>
<tr>
<td>Comm./Public Policy</td>
<td>Homeland Security</td>
<td>Small/Home Business</td>
</tr>
<tr>
<td>Conservation</td>
<td>Housing</td>
<td>Small Farm Mgmt.</td>
</tr>
<tr>
<td>Critical Incident Stress Mgmt.</td>
<td>Human Development</td>
<td>Staff Development</td>
</tr>
<tr>
<td>Crop Science</td>
<td>Human Ecology</td>
<td>StormReady</td>
</tr>
<tr>
<td>Diversity Training</td>
<td>Mgt. Info. Tech</td>
<td>Sustainable Ag.</td>
</tr>
<tr>
<td>Economic Vitality</td>
<td>Land Use</td>
<td>Underserved Audiences</td>
</tr>
<tr>
<td>Economics</td>
<td>Law</td>
<td>Veterinary Sciences</td>
</tr>
<tr>
<td>Education</td>
<td>Leadership Dev.</td>
<td>Volunteer Dev.</td>
</tr>
<tr>
<td>Emergency Mgt.</td>
<td>Machinery</td>
<td>Volunteer Mgt.</td>
</tr>
<tr>
<td>Engineering</td>
<td>Manure/Nutrient Mgt.</td>
<td>Water Quality/Safety</td>
</tr>
<tr>
<td>Entomology</td>
<td>Marketing</td>
<td>Web Site Technology</td>
</tr>
<tr>
<td>Environmental Quality</td>
<td>Mental Health (post disaster)</td>
<td>Workforce Dev./Safety</td>
</tr>
<tr>
<td>Extension Admin.</td>
<td>Meteorology</td>
<td>Youth Development</td>
</tr>
<tr>
<td>Family Finance</td>
<td>Nematology</td>
<td>Youth Engagement</td>
</tr>
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</table>

As EDEN has grown, its annual meetings have provided delegates the opportunity to view projects and successes of others in the network and take ideas back to their own states.

In 2002, EDEN began to receive funding from USDA-CSREES for homeland security and food and agricultural defense initiatives. This funding has helped EDEN grow in several ways. It:

- Improved assessment of educational needs through survey management
- Improved the ability to share information through the Web site and database management at LSU
- Improved communication of ideas and information through management at Purdue University.
- Began development of courses listed on the previous page, and featured on page 42.
- Enhanced the development of long-term relationships with federal/national agencies, such as:
  - United States Department of Agriculture
  - Federal Emergency Management Agency
  - Department of Homeland Security
  - Department of Justice
  - Centers for Disease Control

**EDEN at Work: Two National Examples**

**September 11, 2001**

While individuals in EDEN have immediately exchanged information nearly from its beginning, one of the first organizational responses from EDEN was on the morning of 9/11. Within minutes of the Twin Towers’
collapse, EDEN was at work sharing information on “how to talk to children about terrorism.” More than 24,000 teachers and child care providers downloaded this valuable information and handed it out to an untold number of parents by the end of that day. In the following weeks, EDEN delegates developed informational Web pages on terrorism and agroterrorism as Americans began to have many questions about these issues.

**Hurricane Katrina, 2005**

Extension and EDEN were there to support relief agencies whose mission was to fill the immediate needs of the people. In many cases, Extension delegates and county staff brought together the networking resources that outside agencies needed but had no way of getting quickly. Extension was poised to help with recovery because EDEN training had provided delegates with information on previous lessons learned. Extension found resources and made connections for agricultural producers, small business owners, families, stranded pets, and many others.

Beyond the basic needs of survival and safety, residents needed information on what to do about flooded homes, food safety, crop damage, lost records, fallen trees, generators and so much more. As an organization, EDEN delegates contributed hundreds of documents with information to meet those needs, and EDEN communicators complied that information and shared it with delegates in the most affected states.
EDEN Partnerships

EDEN is a grassroots effort, created by state Extension Services and continuing to function as a federation of institutions rather than a top-down organization through the federal government. Since its informal beginnings, EDEN has partnered with a variety of agencies and organizations to carry out the mission of sharing educational resources to reduce the impact of natural and manmade disasters. Since its beginning, members have held annual meetings to share program ideas and to create professional improvement opportunities. Speakers at annual meetings have included representatives from:

- American Red Cross
- United Way
- Center for Foreign and Zoonotic Animal Diseases based at Texas A&M
- Center for Food and Agricultural Defense based at the University of Minnesota
- National Weather Service
- U.S. Geological Survey
- Federal and State Emergency Management
- Volunteer organizations that responded to Hurricane Katrina
- Land Grant Universities

Outside the organization, EDEN representatives have been asked to speak at or participate in many national, state and regional meetings and workshops, including:

- University of Colorado Natural Hazards Conference
- National Plant Diagnostic Network Annual Meeting
- FEMA Family and Community Preparedness Conference
- FEMA National Public Leadership and Development Conference
- Department of Justice Pandemic Preparedness Workshop
- Department of Justice Neighborhood Watch Workshop
- Department of Justice National Infragard Conference
- Department of Homeland Security National Preparedness Partnership forum
- National Business Retention & Expansion International Conference
- Southern Region Program Leaders meeting
- National American Phytopathological Society (APS) meeting
- National Urban Extension Conference
- North Atlantic Poultry Association
- Midwest Governor’s Conference on Agricultural Biosecurity

EDEN worked with the Centers for Disease Control and Prevention (CDC) to develop the Pandemic Preparedness for Faith-based Organizations (http://www.eden.lsu.edu/LearningOps/FBO/default.aspx). For National Preparedness Month, EDEN worked with the Department of Homeland Security Preparedness Division to develop media messages relating to school, business, multicultural awareness and family preparedness.

At the state level, many EDEN delegates collaborate with county and state emergency managers; state departments of agriculture and health; non-governmental organizations, such as Red Cross; and other disaster education entities.
Mission
The mission of the Extension Disaster Education Network (EDEN) is to share educational resources to reduce the impact of natural and man-made disasters.

This mission is carried out through:
• Interdisciplinary and multi-state research and education programs addressing disaster mitigation, preparation, prevention, response and recovery
• Linkages with federal, state and local agencies and organizations
• Anticipation of future disaster education needs and actions
• Timely and prompt communication and information delivery that meet audience needs
• Credible and reliable information

Membership
EDEN is a federation of land-grant extension services and programs. An institution becomes a member when the director or administrator names a point of contact and submits an EDEN Cooperative Agreement that says the institution will share its information and educational resources on disasters with other member institutions and, to the extent possible, support participation of the point of contact and delegates in the EDEN annual meeting.

Institutions are EDEN members rather than individuals. Representatives from the institutions are delegates, and one of the delegates serves as the institution’s point of contact.

All member institutions from a state should collaborate to enhance communication with educators and specialists and to the public, and to maximize effectiveness of Extension disaster education programs in their state.

Point of Contact – The points of contact (POCs) are the primary conduits of information in the network. These individuals have responsibility to ensure that information on the state Web pages is current and correct. POCs are also responsible for communicating information and issues of interest to colleagues within their institutions. Each POC may appoint and dismiss delegates from their institution. The POC can be changed with the state director’s or administrator’s approval.

Delegates – The director, administrator or POC may name delegates. The delegates should represent different program areas with a particular programmatic interest in disaster education. Delegates are encouraged to serve as committee members and perform other organizational functions in EDEN. Each member institution, rather than each delegate, gets one vote on official business.

Administrative Representation – EDEN has an adviser from the Extension Committee on Organization and Policy (ECOP) to maintain liaison and coordination with Extension directors and administrators. ECOP will select its representative. The USDA Cooperative State Research, Education and Extension
Service (CSREES) is the federal partner for EDEN and will also appoint programmatic and funding liaison(s) to EDEN. The ECOP and CSREES representatives serve on the EDEN executive committee to provide advice and coordination, and are encouraged to attend the annual meeting.

**Officers**

- **Chair** – The chair is responsible for providing leadership to EDEN. This person chairs executive committee meetings and the annual meeting. The chair is the primary communicator with partners and the membership. The chair speaks on behalf of EDEN but may delegate that responsibility.
- **Chair-elect** – The chair-elect will succeed the chair at the end of the chair’s term. If the chair is unable to fulfill his/her obligations and duties, the chair-elect will act in his/her place. The chair-elect serves as the executive committee’s liaison to the EDEN committees and as program chair for the annual meeting.
- **Secretary** – The secretary is responsible for taking and publishing minutes of all executive committee meetings and the annual meeting.
- **Past Chair** – The past chair shall chair the nominating committee.

**Terms of Office**

All officers are elected for a term of two years and take office at the end of the annual meeting for which their term should start.

**Election**

Officers will be elected through an electronic vote that precedes the annual meeting with one vote per POC or his/her designee. The election will take place in even-numbered years.

To be eligible for elected office, an individual must be a delegate from a member institution. Delegates elected to office must have the support of their director/administrator to participate in meetings and to fulfill other obligations of the office. Elected officers serve as volunteers and are not compensated with EDEN funds for fulfilling EDEN responsibilities. However, officers may sometimes be reimbursed for approved expenses.

If any officer is unable or failing to fulfill his/her duties, the executive committee may take corrective action.

**Committees**

**Executive Committee** – The executive committee is comprised of the chair, chair-elect, past chair, secretary, chairs of all standing committees, ECOP and CSREES representatives, and additional regional representatives if necessary. Others may be asked to take part in executive committee meetings as non-voting participants.

The executive committee will have representation from the following “regions”: Northeast, South, North Central, West, 1890 institutions and Sea Grant institutions. If a region is not represented by one of the officers or a committee chair, the executive committee will select a representative to serve for a term of one year.
Standing Committees

EDEN standing committees are:
- Information Clearinghouse
- Professional Development
- Marketing
- Annual Meeting
- Nominating

At the annual meeting, the Information Clearinghouse, Professional Development and Marketing committees will select a chair and vice chair to serve one-year terms. The chair may serve no more than three consecutive one-year terms on the same committee. The committee chair is responsible for helping the committee set its annual goals and organizing its work, which can be done at the annual meeting, by email, over conference calls or through other means. Committee chairs are expected to be engaged with executive committee work and are to ask the committee vice-chair to take part when unable to participate.

Annual Meeting – The annual meeting committee will be chaired by a delegate from the year’s host institution(s) and will include the EDEN chair-elect who chairs the program portion of the meeting, the chair of the immediate past annual meeting and other delegates as needed.

Nominating – The nominating committee will be appointed by the EDEN chair and will be chaired by the immediate past chair. This committee will present candidates for chair-elect and secretary to be voted on by electronic ballot before the annual meeting.

Other Committees and Task Forces – The chair and executive committee may establish other committees and task forces for particular functions and needs. These committees will serve at the pleasure of the executive committee or until their mission is completed.

Annual Meeting

Delegates will meet annually at a location and time determined by the executive committee and host institution. Delegates will be given adequate notification of the annual meeting. Delegates and other Extension professionals who have interest and responsibilities are encouraged to attend. Anyone interested in disaster education is welcome to attend.

The executive committee will select the annual meeting location three years ahead based on rotation among geographic regions:

<table>
<thead>
<tr>
<th>Region</th>
<th>2004</th>
<th>2008</th>
<th>2012</th>
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<tbody>
<tr>
<td>Northeast</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>North Central</td>
<td>2005</td>
<td>2009</td>
<td>2013</td>
</tr>
<tr>
<td>South</td>
<td>2006</td>
<td>2010</td>
<td>2014</td>
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<tr>
<td>West</td>
<td>2007</td>
<td>2011</td>
<td>2015</td>
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Institutions from the region that are interested in hosting the meeting will send a one-page letter to the EDEN chair. This proposal letter should explain the capabilities the member institution(s) has to host the EDEN annual meeting. An EDEN Annual Meeting Responsibilities document is on the EDEN Intranet.
Use of EDEN Name and Logo
EDEN member institutions may use the EDEN name and logo in a way that reflects membership in the network and in conjunction with their institution or state name. Non-EDEN organizations may use the EDEN name and logo only with the endorsement of the executive committee. Grant applications or organizations that list EDEN as a partner or as a distribution channel must have executive committee approval. Letters of support committing EDEN must be written by the chair or his/her designee. Member institutions may not commit EDEN to financial obligations, distribution of materials or information, or other responsibilities without approval of the executive committee.

Funding
Membership – EDEN membership requires no financial obligation; however, directors/administrators are encouraged to invest in the network by allowing delegates time to work on disaster education and by sending at least one delegate to attend and report at the annual meeting.

Obtaining funds on behalf of EDEN – Member institutions can receive funds on behalf of EDEN only with the approval of the executive committee (EDEN Exec).

When an EDEN delegate becomes aware of a funding opportunity that EDEN and/or an EDEN committee/group might wish to pursue, the delegate should advise the EDEN chair about the opportunity and prepare brief synopsis of the opportunity for the Executive Committee, including finder’s interest in being involved in the proposal effort. If the EDEN Exec decides funding should be pursued, the chair appoints someone to lead the proposal development effort. [For short-turnaround proposals, the chair may make the initial decision to proceed, inform the EDEN Exec and, with advice of selected EDEN Exec committee members, appoint a proposal development team.] Proposal development teams should have three or more members.

The chair will notify EDEN delegates immediately when it is determined that a proposal will be prepared. The notice will include sufficient detail to allow participation by interested delegates, if appropriate. Through this process proposal development team members can be identified. The proposal development team develops a proposal and submits it to EDEN Exec for approval prior to submission.

Funding proposals must adhere to the following guidelines:
• Proposals must clearly define EDEN’s obligations under the proposal, as well as the relationship(s) between EDEN and the funded institution(s), and between EDEN and the individuals to be supported using the funds.
• Proposals must be reviewed by the institutions providing core EDEN communications and Internet services to ensure that the level of support required in the proposal does not exceed that available under current contract, or to assure that funding for additional support by these institutions has been included. Note: This does not preclude proposing support for communications efforts at other member institutions or for Web development work that will be done at other institutions for eventual deployment on EDEN’s Web site. Reviews by these institutions early in the proposal development process are recommended.
• Proposals may be submitted as committee efforts or at the EDEN Exec level.

Administrative Infrastructure – Communications and Homeland Security leadership responsibilities at Purdue and Web development and support at LSU will continue until 2010, pending availability of funds and personnel.
Prior to allocation of FY10 funds, all EDEN member institutions will be invited to submit proposals to host these functions if agreeable to the funding agency or agencies. The executive committee will establish an outside review panel to review and make recommendations on the proposals. This process will be conducted every five years.

Communication
All delegates will be included on the EDEN delegate e-mail list to facilitate communication.

Conduct of Business
All business will be conducted according to Robert's Rules of Order.

• Approved May 19, 2005, by executive committee
• Ratified at 2006 annual meeting by membership
• Revised Feb. 7, 2006, by executive committee
• Revised March 12, 2007, by executive committee
EDEN 2007-2008 Goals

The following are goals established at the 2007 EDEN Executive Committee Mid-Winter Meeting. These will be reviewed and updated at the 2008 Mid-Winter Meeting.

Flooding and Agrosecurity eXtension Communities of Practice (CoPs)—Each COP is compiling at least 50 FAQ’s and 15 Fact sheets. Work teams work collaboratively to locate, review, edit, and post the best research-based information available. Questions from eXtension audiences are processed and addressed by the work teams.

- **Timeline:** Framework is outlined and Agrosecurity FAQ’s completed and submitted. Flooding FAQ’s and fact sheets are developed and in review. All completed by April. Public launch by September.
- **Target Audience:** eXtension and general public
- **Indicator of Success:** Public launch of fact sheets, FAQ’s, Ask the Experts, Number of “hits”
- **Budget:** $56,000 from eXtension
- **Potential Funding Source:** Year 2 eXtension COP with emphasis on Avian Influenza, plus continuation of flooding and general agrosecurity COP’s. Complimentary project funding from CSREES.
- **Leader:** Dave Filson

EDEN involvement in September National Preparedness Month—All current NPM-designated materials will be updated, if necessary. A 2007 addition to the campaign will include “How to be an effective volunteer in a disaster,” which can be a message delivered to community members by Extension professionals.

- **Timeline:** Materials developed by May ’07. Promotion for all NPM materials, on behalf of EDEN, will begin in June ’07.
- **Target Audience:** General public through the Extension Educators
- **Indicator of Success:** 50% of states participate
- **Budget:** $1,500 for any necessary printing or design costs
- **Potential Funding Source:** CSREES FADI
- **Leader:** Abigail Borron

Media use NPM materials—EDEN Communication specialist(s) promote the available NPM materials to various media outlets around the country, while also encouraging Extension professionals to use their local media to get the word/message out.

- **Timeline:** Media organization will begin in June ’07; major push will be in mid-August ’07.
- **Target Audience:** General public
- **Indicator of Success:** National estimate of the reach
- **Budget:** $0; and a portion of Abigail’s time.
- **Potential Funding Source:** CSREES FADI
- **Leader:** Abigail Borron

EDEN Courses: 1) Promotion; 2) Use—All courses are adequately marketed throughout the year on a designated timeline

- **Timeline:** Ongoing
• **Target Audience:** All course users – specifically Extension professionals planning to deliver the courses

• **Indicator of Success:** 1) 25% of EDEN delegates are actively promoting the course in their state; 2) All courses have a 15% increase in use.

• **Budget:** $0; and a portion of Abigail’s time.

• **Potential Funding Source:** CSREES FADI

• **Leader:** Abigail Borron

**Information capture for EDEN courses**—All courses available on the EDEN Web site will have an intermediate information capture page that all users will have to fill out prior to accessing the course the first time.

• **Timeline:** End of April.

• **Target Audience:** All course users – specifically Extension professionals planning to deliver the courses

• **Indicator of Success:** “Capture” pages are up and capable of gathering information useful for course marketing purposes.

• **Budget:** $0; and a portion of Abigail and Summer’s time.

• **Potential Funding Source:** CSREES FADI

• **Leader:** Abigail Borron, Summer Prisock

**Southern Region/national disaster education guidelines**—Finalize and summarize by program area

• **Timeline:** Vetted by Extension Directors/Administrators by early 2007

• **Target Audience:** Extension institutions

• **Indicator of Success:** national adoption of recommendations

• **Potential Funding Source:** FADI

• **Leader:** Ed Jones

**Finish and Deliver EDEN Animal Biosecurity and Emergency Mgt. Course**—Work with the University of Kentucky to develop an 8-hour course for educators to better prepare for animal biosecurity and emergency events

• **Timeline:** Launch in the fall ‘07

• **Target Audience:** Extension educators and other professionals or volunteers

• **Indicator of Success:** The course is online and on-line indicators show that people are interacting with the course

• **Budget:** $60,000, plus a portion of Steve’s time

• **Potential Funding Source:** FADI

• **Leader:** Steve Cain, Andrea Husband

**Avian Influenza Team**—An EDEN team provides timely information on Avian Influenza for educators and the public.

• **Timeline:** Spring ‘07

• **Target Audience:** Extension educators and the public

• **Indicator of Success:** Extension specialists and educators turn to EDEN for facts on avian influenza

• **Budget:** $59,000 and a portion of Steve’s time

• **Potential Funding Source:** FADI

• **Leader:** Steve Cain, Kim Cassel, Pam King
Regional emergency preparedness agency coordination workshops: animal agrosecurity in ’07—
With three regional conferences in 2007, the goal is to better establish an understanding of Extension’s role in an animal agrosecurity event. In addition, the conferences are meant to encourage interagency relations.

- **Timeline:** Northeast/Mid-Atlantic: March 27-28, 2007; Southwest: April 3-4, 2007; Southeast: January 8-10, 2008
- **Target Audience:** Extension, depts. of Ag, etc.
- **Indicator of Success:** Coordination within states, team from each state in the region
- **Budget:** $90,000 in 2007 (possible $90,000 in 2008)
- **Potential Funding Source:** FADI
- **Leader:** Abigail Borron

Marketing plan for EDEN
- **Target Audience:** Internal
- **Indicator of Success:** Completed
- **Potential Funding Source:** FADI
- **Leader:** Marketing committee

EDEN Web site migrated into a content management system
- **Indicator of Success:** Done, percentage of hits on resources developed in the past two years, how often fact sheets or other materials are updated
- **Potential Funding Source:** FADI
- **Leader:** Pat Skinner

Emergency Management training for Extension educators—A brief online introduction to emergency management and Extension’s possible roles is needed for Extension educators
- **Timeline:** Spring ’07
- **Target Audience:** Extension educators
- **Indicator of Success:** Pull parts of Modules 1 & 4 from the USDA’s Roles course
- **Budget:** $2,000? - Will be completed as part of USDA’s Roles course update
- **Potential Funding Source:** FADI
- **Leader:** Becky Koch

Needs assessment—Work with FEMA Region V and/or VOAD to conduct an assessment of educational needs for disaster education
- **Timeline:** Focus group identified by summer ’07; assessment conducted in the fall.
- **Target Audience:** General Public
- **Indicator of Success:** We have qualitative data on a sample focus group of individuals who have an interest in disaster education
- **Budget:** 1. $3,000 for focus groups; 2. Funds for Steve’s time from FADI
- **Potential Funding Source:** FEMA, VOAD, FADI
- **Leader:** Steve Cain

EDEN Surveys of educational needs—Update the 2002 surveys
- **Timeline:** Spring or Fall ’07 launch
- **Target Audience:** POCs, Extension educators
- **Indicator of Success:** We have quantitative and qualitative data on educational needs from two
About EDEN - 2007/2008 Goals

core audiences for EDEN

- **Budget**: $500 and a portion of Steve’s time from FADI
- **Potential Funding Source**: FADI
- **Leader**: Steve Cain

EDEN will identify current and develop needed materials for underserved and special needs audiences—Adapt current material and create any new material identified as being necessary to better serve special needs and other underserved audiences.

- **Target Audience**: Underserved audiences
- **Indicator of Success**: 5 fact sheets
- **Budget**: $500 for distribution of materials to agencies outside of Extension and USDA
- **Potential Funding Source**: CSREES and other USDA agencies, libraries
- **Leader**: Information Clearinghouse committee and Dawn Mellon-Patin

CSREES Program review

- **Target Audience**: CSREES
- **Indicator of Success**: improve organizational effectiveness
- **Budget**: $0
- **Leader**: Joe Wysocki and Becky Koch

Establish an area on the EDEN Web for youth programming

- **Target Audience**: County educators
- **Indicator of Success**: section on Web
- **Potential Funding Source**: CSREES special needs, CYFAR, corporate
- **Leader**: Howard Van Dijk and committee to be named

Develop EDEN Plant Biosecurity short course: Interactive CD is shorter version of the online and classroom version. The focus is on developing the Biosecurity Plan for the operation

- **Target Audience**: Growers, processors & Extension personnel
- **Indicator of Success**: CD
- **Budget**: $8,000 to include development and distribution to EDEN states
- **Potential Funding Source**: FADI or DHS
- **Leader**: Professional Development committee

Develop EDEN Family Preparedness short course: Interactive CD covering lessons on hazards, risks, and how individuals and families can prepare for disasters. This is based on the Ready.Gov model three-step process

- **Timeline**: Project proposal being submitted to EDEN Exec
- **Target Audience**: General Public
- **Indicator of Success**: CD
- **Budget**: $8,000 to include development and distribution to EDEN states
- **Potential Funding Source**: DHS and HUD
- **Leader**: Professional Development committee

Develop EDEN National Incident Management System training for county officials short course: Interactive CD course covering the elements of NIMS and an overview of Basic ICS

- **Timeline**: Project proposal being submitted to EDEN Exec
• **Target Audience:** County officials, Extension Employees
• **Indicator of Success:** CD
• **Budget:** $8,000 to include development and distribution to EDEN states
• **Potential Funding Source:** DHS
• **Leader:** Professional Development committee, Eric Evans

**Inbox exercise**—An inbox exercise is to be developed for State Extension services to participate in. One area or region will be chosen. A significant crisis will drive the exercise and each state will participate
  • **Timeline:** Project proposal being submitted to EDEN Exec
  • **Target Audience:** Extension educators
  • **Indicator of Success:** Online and email interaction and reactions; # states participating
  • **Budget:** $4,000 per participating state for no more than 12 states at a time. Max is $48,000
  • **Potential Funding Source:** CSREES
  • **Leader:** Eric Evans

**County educators have funding to deliver EDEN courses**—At the National Extension Directors/Administrators meeting, Becky will encourage them to devote FTEs and dollars to disaster education work. In a follow-up e-mail, she will remind directors/administrators about prioritizing disaster ed work and encourage them to cooperate with state EMA and others for possible support.
  • **Timeline:** Presentation done Feb. 8, ’07; E-mail in late February ’07
  • **Target Audience:** Extension institutions
  • **Indicator of Success:** 1 FTE per institution
  • **Budget:** $350 travel to meeting
  • **Potential Funding Source:** state Extension and EMA
  • **Leader:** Becky Koch

**Online Collaborative Tools**—Use technologies such as Centra and wiki to increase EDEN’s work success
  • **Target Audience:** EDEN executive committee and delegates
  • **Indicator of Success:** Use Centra for exec meetings; use wiki for collaborative material development
  • **Budget:** Included in LSU subcontract
  • **Leader:** Pat Skinner
Meet the EDEN Executive Committee

Becky Koch
Chair
Director, Agriculture Communication
North Dakota State University
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Fargo, ND 58105-5655
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Email: becky.koch@ndsu.edu

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Chair Elect
Emergency Preparedness and Response Coordinator and Partnership Director
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Cooperative Extension and Outreach
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Email: tdf1@psu.edu

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Past Chair
Associate Director, Agricultural Programs
North Carolina State University
Box 7653
Raleigh, NC 27695
Ph: 919-515-3252 / Fax: 919-515-5950
Email: edwin_jones@ncsu.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>University</th>
<th>Address</th>
<th>Phone</th>
<th>Fax</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rick Atterberry</td>
<td>Information Clearinghouse</td>
<td>University of Illinois at Urbana-Champaign</td>
<td>801 N. Country Fair Drive, Suite F</td>
<td>217-333-5588</td>
<td>217-265-0899</td>
<td><a href="mailto:ratterbe@uiuc.edu">ratterbe@uiuc.edu</a></td>
</tr>
<tr>
<td>Linda Williams</td>
<td>Marketing</td>
<td>Montana State University</td>
<td>Chouteau County Extension Office, PO Box 459</td>
<td>406-622-3751</td>
<td>406-622-3012</td>
<td><a href="mailto:lwilliams@montana.edu">lwilliams@montana.edu</a></td>
</tr>
<tr>
<td>Eric Evans</td>
<td>Professional Development</td>
<td>University of Missouri</td>
<td>Fire and Rescue Training Institute, 240 Heinkel Bldg., 201 S. Seventh Columbia, MO 65211</td>
<td>573-884-8984</td>
<td>573-822-0678</td>
<td><a href="mailto:evanses@missouri.edu">evanses@missouri.edu</a></td>
</tr>
<tr>
<td>Sam Comstock</td>
<td>Annual Meeting 2008</td>
<td>University of Vermont Extension</td>
<td>Howe Center Business Park, 1 Scale Ave., STE 55 Rutland, VT 05701</td>
<td>802-773-3349</td>
<td>802-775-4840</td>
<td><a href="mailto:Sam.Comstock@uvm.edu">Sam.Comstock@uvm.edu</a></td>
</tr>
</tbody>
</table>
About EDEN - Executive Committee

Dawn Mellion-Patin
1890 Institutions

Associate Specialist-Agriculture
Southern University
Ashford O. Williams Hall
PO Box 10010
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Sea Grant

SC Sea Grant Extension Program Leader
South Carolina Sea Grant Consortium
S. C. Sea Grant Consortium
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Plan and Animal Systems, USDA-CSREES
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About EDEN - Executive Committee

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National Program Leader, Ag Homeland Security
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Email: sprisock@agcenter.lsu.edu
# EDEN Committees

## Standing Committees

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chair</th>
<th>Vice Chair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Development</td>
<td>Eric Evans (MO)</td>
<td>Andy Vestal (TX)</td>
</tr>
<tr>
<td>Information Clearinghouse</td>
<td>Rick Atterberry (IL)</td>
<td>Andrea Husband (KY)</td>
</tr>
<tr>
<td>Nominating</td>
<td>Ed Jones (NC)</td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td>Linda Williams (MT)</td>
<td>Charlie Stoltenow (ND)</td>
</tr>
<tr>
<td>Annual Meeting 2008</td>
<td>Sam Comstock (VT)</td>
<td>Dave Filson (PA)</td>
</tr>
</tbody>
</table>

## Appointed Committees

<table>
<thead>
<tr>
<th>Committee</th>
<th>Chair</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development Committee</td>
<td>Ed Jones (NC)</td>
<td>Dave Baker (MO, Billy Dictson (NM), Julie Smith (VT), Steve Cain (IN), Becky Koch (ND)</td>
</tr>
</tbody>
</table>

The **EDEN Development Committee** will:

- Use the EDEN executive committee’s project priority list and budget to acquire funding from various sources
- Make contacts and develop relationships with potential funding sources
- Develop proposals or organize teams of EDEN delegates to develop proposals
- When funding is secured, develop requests for proposals to select lead institutions for each project and bring recommendations for lead institutions to the executive committee for final approval
- Report to the EDEN executive committee
- Work with the EDEN chair to maintain flexibility and make strategic changes to take advantage of unexpected funding opportunities
- Advise the executive committee on financial issues
- Bring reviewed project ideas to the executive committee

The committee will be appointed by the EDEN chair with delegates who have experience and connections rather than volunteers and will serve during that EDEN chair’s term. The immediate past chair will be a member of the committee.

The Development committee chair and leader of each funded project will provide updates on each EDEN executive committee call. The Development committee chair will be a member of the executive committee as other committee chairs are.
Agrosecurity Committee

Chair         Billy Dictson (NM)
Members       Steve Cain (IN), Julie Smith (VT), Dave Filson (PA),
              Bill Hoffman (CSREES), Andrea Husband (KY), Ed
              Jones (NC), Gary Sherman (CSREES), Mark Robinson
              (CSREES), Andy Vestal (TX)

The EDEN Agrosecurity Committee (an appointed committee) will:

- assess and document priorities for agrosecurity issues and funding opportunities for EDEN in this
  programmatic area
- offer agrosecurity guidelines for state EDEN members consideration
- communicate agrosecurity information to the EDEN members and the Extension System
- market the abilities of EDEN and the system within and outside of Cooperative Extension Service
  nationally.

Explanation of Purpose
The committee seeks ways to encourage development and use of teaching and outreach materials for county
and state faculty and staff. This committee networks with federal- and state-agency, industry, and
organizational personnel to help secure funding opportunities, awareness of and use of EDEN products
and services.

The committee recognizes that Agrosecurity can be defined various ways to include agriculture
components such as food, crops, animals, transportation, etc. While recognizing the importance of all
components in protecting the entire system, the committee started by focusing on products specific to
animal agriculture. As opportunities occur to broaden the mission, other segments of food and agriculture
production and safety should be addressed and the committee adapted to facilitate the process.
<table>
<thead>
<tr>
<th>University</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcorn State University</td>
<td>Charles Shephard</td>
</tr>
<tr>
<td>Auburn University</td>
<td>Virginia Morgan</td>
</tr>
<tr>
<td>Clemson University</td>
<td>Howard van Dijk</td>
</tr>
<tr>
<td>Colorado State University</td>
<td>Tom McBride</td>
</tr>
<tr>
<td>Cornell University</td>
<td>Ellen Abend</td>
</tr>
<tr>
<td>Florida A&amp;M University</td>
<td>Angela McKenzie-Jakes</td>
</tr>
<tr>
<td>Florida Sea Grant</td>
<td>Mike Spranger</td>
</tr>
<tr>
<td>Hawaii Sea Grant</td>
<td>Zoe Norcross-Nuu</td>
</tr>
<tr>
<td>Iowa State University</td>
<td>Charles Schwab</td>
</tr>
<tr>
<td>Kansas State University</td>
<td>Mary Lou Peter-Blecha</td>
</tr>
<tr>
<td>Kentucky State University</td>
<td>Nolan Williams</td>
</tr>
<tr>
<td>Louisiana Sea Grant</td>
<td>Michael Liffmann</td>
</tr>
<tr>
<td>Louisiana State University</td>
<td>Pat Skinner</td>
</tr>
<tr>
<td>Michigan State University</td>
<td>Ann Nieuwenhuis</td>
</tr>
<tr>
<td>Mississippi State University</td>
<td>Tom Ball</td>
</tr>
<tr>
<td>Mississippi-Alabama Sea Grant Consortium</td>
<td>Josh Clemon</td>
</tr>
<tr>
<td>Montana State University</td>
<td>Mike Vogel</td>
</tr>
<tr>
<td>New Mexico State University</td>
<td>Billy Dictson</td>
</tr>
<tr>
<td>North Carolina A &amp; T State University</td>
<td>Robert Williamson</td>
</tr>
<tr>
<td>North Carolina Sea Grant</td>
<td>Lisa Schiavinato</td>
</tr>
<tr>
<td>North Carolina State University</td>
<td>Edwin Jones</td>
</tr>
<tr>
<td>North Dakota State University</td>
<td>Becky Koch</td>
</tr>
<tr>
<td>Oklahoma State University</td>
<td>Barbara Brown</td>
</tr>
<tr>
<td>Oregon State University</td>
<td>Bill Braunworth</td>
</tr>
<tr>
<td>Pennsylvania State University</td>
<td>Dave Filson</td>
</tr>
<tr>
<td>Purdue University</td>
<td>Steve Cain</td>
</tr>
<tr>
<td>Rutgers, The State University of New Jersey</td>
<td>Mary Jane Willis</td>
</tr>
<tr>
<td>South Carolina Sea Grant Consortium</td>
<td>Robert Bacon</td>
</tr>
<tr>
<td>South Dakota State University</td>
<td>Kim Cassel</td>
</tr>
<tr>
<td>Southern University</td>
<td>Dawn Mellion-Patin</td>
</tr>
<tr>
<td>Tennessee State University</td>
<td>Finis Stribling</td>
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<tr>
<td>Texas A &amp; M University</td>
<td>Margaret Hale</td>
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<td>Texas Sea Grant</td>
<td>Robert Stickney</td>
</tr>
<tr>
<td>The Ohio State University</td>
<td>Dee Jepsen</td>
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<tr>
<td>University of Alaska Fairbanks</td>
<td>Linda Tannehill</td>
</tr>
<tr>
<td>University of Arizona</td>
<td>James Christenson</td>
</tr>
<tr>
<td>University of Arkansas</td>
<td>Currently no POC designated</td>
</tr>
<tr>
<td>University of California</td>
<td>William Frost</td>
</tr>
<tr>
<td>University of Connecticut</td>
<td>Bruce Wilbur</td>
</tr>
<tr>
<td>University of Delaware</td>
<td>Michael Love</td>
</tr>
<tr>
<td>University of Florida</td>
<td>Carol Lehtola</td>
</tr>
<tr>
<td>University of Georgia</td>
<td>John Worley</td>
</tr>
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</table>
University of Guam
University of Hawaii at Manoa
University of Idaho
University of Illinois at Urbana-Champaign
University of Kentucky
University of Maine
University of Maryland
University of Maryland Eastern Shore
University of Massachusetts
University of Minnesota
University of Missouri
University of Nebraska
University of Nevada
University of New Hampshire
University of Puerto Rico
University of Rhode Island
University of Tennessee
University of Vermont Extension
University of Virgin Islands
University of Wisconsin
University of Wyoming
USDA-CSREES
Utah State University
Virginia Polytechnic Institute & State University
Washington State University
West Virginia State University
West Virginia University
Peter Barcinas
Wayne Nishijima
Tom Karsky
Rick Atterberry
Tom Priddy
James Dill
Bob Tjaden
Thomas Handwerker
Shirley Mietlicki
John Shutiske
Dave Baker
DeLynn R. Hay
John Burton
David Foote
Currently no POC designated
Peter August
Timothy Prather
Sam Comstock
Kofi Boateng
Patrick Walsh
Jerry Langbehn
Joseph Wysocki
Kristine Saunders
Jim Riddell
Randy Baldree
Jenny Fertig
Peter Marshall
The conception, development, and growth of the Extension Disaster Education Network (EDEN) were a direct result of the lessons learned by the Land-Grant system responding to the catastrophic Mississippi and Missouri river floods of 1993. The major lessons learned were:

- Long-term community recovery efforts would rest with three key groups/agencies - local government, the faith community and Extension. These three were in those communities long after the water receded and the disaster was no longer national news.
- Citizens looked to Extension for resources and expertise related to disaster recovery, mitigation and preparedness, but the individual states lacked the capacity, research-based information or expertise to address the multitude of issues/needs resulting from a major disaster.
- The emergency management community discovered that the Land-Grant system could be a tremendous asset.
- Extension had a role related to emergency management, but the faculty and staff were not technically prepared to play that role.
- There was a need for more coordination and standardization of recovery recommendations by the various emergency response agencies - Departments of Health, Red Cross, Salvation Army, FEMA, etc.
- The impacted states lacked the capacity and resources to effectively deal with the magnitude of requests for information, expertise, recommendations, technical assistance, community planning, recovery issues, etc.

Based on these lessons learned, it was obvious that the Land-Grant system would have an ongoing expectation to be involved locally and nationally in emergency management.

A.J. Dye of the USDA Cooperative State Research, Education and Extension Service (CSREES) asked Peter Bloome, University of Illinois; Jerry DeWitt, Iowa State University; and David Baker, University of Missouri, to develop a proposal for the use of remaining special funds to build on the lessons learned and to position the region to more effectively prepare for and respond to future disasters.

The three leaders initially envisioned that one or more centers would be established in the North Central Region (NCR) where states could pool their technical and educational resources to more effectively respond in times of a disaster. During the 1993 disaster, the states did share some important human resources, but they thought that they could do better. In addition, graduate students at Purdue University and University of Illinois began to use the Internet to find recovery resources for county educators in the flooded areas. But, the search took days and only netted a few publications. With the growing Internet, a better database was needed.

DeWitt submitted a multi-state proposal for $80,000 to CSREES. Shortly after the grant was funded, DeWitt changed jobs, and it was agreed that Illinois and Missouri would move forward with the proposal. The University of Illinois sub-contracted with ISU, and Peter Bloome agreed to serve as the new PI.

The NCR Extension directors were asked to designate one representative per state to serve on a regional committee and to attend a fall 1995 meeting in Kansas City. The main issues that surfaced
During that meeting were:

- How can we share the resources we already have that apply to disasters?
- What resources are available or missing that would be used by the North Central states in the types of disasters that we typically experience?
- How can we provide training to Extension staff members in emergency management?
- How can we promote scholarly research and efforts that would support this area if Extension were to play a role in it?
- Where can we go to find funds that might support these efforts?

At a second meeting in Kansas City in May 1996, the representatives brought more ideas for collaboration. On the last day, participants agreed the "disaster reduction group" needed a name. The key driving principle was development of a network or collaboration between the 12 NCR states to respond as a system/region to future disasters. Four key words described that vision - "Extension... Disaster ... Education... Network," thus the name and acronym of EDEN were born.

The first annual meeting of EDEN was held in Minneapolis during the fall of 1996. Other annual meetings have been:

1997 - New Orleans (in conjunction with the National Housing Conference)
1998 - Baton Rouge, Louisiana
1999 - Emmitsburg, Maryland (at the Emergency Management Institute)
2000 - Portland, Oregon
2001 - St. Louis, Missouri
2002 - Charleston, South Carolina
2003 - Denver, Colorado
2004 - University Park, Pennsylvania
2005 - Fargo, North Dakota
2006 - Nashville, Tennessee
2007 - Hilo, Hawaii

**Future annual meetings will be:**

2008 - Burlington, Vermont
2009 - Indianapolis, Indiana

**Chairs who have served EDEN are:**

1994-1998 - Peter Bloome, Illinois and Oregon
1998-2000 - Pat Skinner, Louisiana
2000-2002 - David Baker, Missouri
2002-2004 - Mark Hansen, Michigan
2004-2006 - Ed Jones, North Carolina
2006-2008 - Becky Koch, North Dakota

**Chair Elect:**

2008-2010 - Dave Filson, Pennsylvania
EDEN’s growth — Related to three events:

1. When Extension staff from outside the North Central Region took part in the 1997 Annual Meeting in New Orleans in conjunction with the National Housing Conference, EDEN started becoming a national rather than regional network.

2. From July 2002 to June 2004, CSREES special needs funds provided grants to 17 member states to provide disaster education/emergency management training for their Extension educators.

3. By 2005, all 50 states and three U.S. territories had institutions as EDEN members.

For a number of years, CSREES has provided EDEN with funding to support EDEN coordination and communications, Web development and maintenance, curriculum development, training, and resources development.
As noted in the History of EDEN (pages 32-34) CSREES provided $80,000 in funding to build on lessons learned from the 1993 floods and the pursuant recovery. That funding enabled Extension professionals to develop the concept of and a working process for EDEN as an organization.

The next major network development step for EDEN was the agreement by Extension directors in the North Central Region to designate and fund a representative from each institution in that region to meet and discuss future plans to reduce the impact of disaster through EDEN-type efforts. As EDEN grew, directors in other states agreed to the same type of support. Now, all 50 states and three U.S. territories have representatives from appropriate institutions.

EDEN member institutions pay no dues or assessments to be part of the network. When a Land-Grant Extension director/administrator signs the EDEN cooperative agreement, he or she names a staff person who serves as the point of contact for EDEN activities. A 2004 survey of EDEN delegates found that these Extension staff value the EDEN network. One half of the delegates said that the EDEN Network was like adding a one-half to full time person. Conservative estimates indicate that the EDEN network saves Land Grants about $1.2 million in staff time per year. The survey showed that EDEN delegates represent more than 20 disciplines and spend about $1.8 million in FTE on disaster education and preparedness each year. A survey in process—as this document was written—already shows that the number of disciplines represented has increased to more than 75.

Over the years, CSREES has provided some special needs grants to various institutions for emergency management and disaster-related work (also mentioned in the History of EDEN on page 32). In 2007, that process was formalized and CSREES awarded more than $400,000 to seven states for continued EDEN-type work.

### FY 2007 Special Needs Grants Funded

<table>
<thead>
<tr>
<th>Institution</th>
<th>Title</th>
<th>Amount Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Univ. of Maryland</td>
<td>Small Flock biosecurity programs</td>
<td>$52,150</td>
</tr>
<tr>
<td>Univ. of Illinois</td>
<td>Earthquake emergency preparedness</td>
<td>$20,785</td>
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<tr>
<td>Univ. of Florida</td>
<td>Addressing the needs of Older Adults in times of disaster: An EDEN based program</td>
<td>$100,000</td>
</tr>
<tr>
<td>Michigan St. Univ.</td>
<td>Animal Security Education in Michigan and Ohio</td>
<td>$65,000</td>
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<tr>
<td>NDSU</td>
<td>Electronic media to add value to “Ready Business” Training</td>
<td>$18,000</td>
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<tr>
<td>Penn State</td>
<td>Ready Ag – Disaster and defense preparedness for Production Ag.</td>
<td>$74,917</td>
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<tr>
<td>Utah St. Univ.</td>
<td>Emergency Preparedness Certification</td>
<td>$38,564</td>
</tr>
<tr>
<td>The Ohio St. Univ.</td>
<td>Disaster relief sustainability: Business continuity planning for CES in OH and MI.</td>
<td>$65,000</td>
</tr>
</tbody>
</table>

Also, over the years, CSREES has provided funding to EDEN for work related to Homeland Security (HS) and the Food and Agricultural Defense Initiative (FADI) of the USDA. The primary use of that...
funding has been to:
• identify educational needs,
• develop educational materials and courses,
• provide communication support,
• provide network and database support, and
• liaise or represent EDEN at national meetings.

This funding began in 2002 with a two-year grant and became consecutive, one-year grants starting in 2004. Purdue University applies for the grants on behalf of EDEN and reports to the EDEN Executive Committee on the use of the funds. The Executive Committee voted to keep the funding flow through Purdue until 2010, with plans to review the arrangement at that time.

CSREES Homeland Security and Food and Ag Defense funding history:
• 2002 to 2004  $600,000
• 2004  $230,000
• 2005  $253,000
• 2006  $280,000 (plus $190,000 supplemental)
• 2007  $379,000 (plus $90,000 supplemental)

The base funding allows for communication, coordination, and graphic support from Purdue University, and network and Web support from Louisiana State University Ag Center, at about $100,000 per year each.

Educational Material Development
Because EDEN’s original audience was (and still is) Extension Educators, one of the first steps taken was to assess their needs for homeland security education.

National Survey Results of Extension Educators
In 2002, EDEN conducted a survey of 1,467 Extension educators from around the country. The purpose was to gain a better understanding of what they felt were pertinent educational issues when it comes to issues of homeland security. One question asked educators to rank a list homeland security topics as to how urgent they were to their community. The results placed the issues in the following order:

<table>
<thead>
<tr>
<th>Issue</th>
<th>Urgent</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>

<table>
<thead>
<tr>
<th>Issue</th>
<th>Not Urgent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drinking water security –</td>
<td>4%</td>
</tr>
<tr>
<td>Food Security –</td>
<td>9%</td>
</tr>
<tr>
<td>Individual’s role –</td>
<td>14%</td>
</tr>
<tr>
<td>Government’s role –</td>
<td>14%</td>
</tr>
<tr>
<td>Animal biosecurity –</td>
<td>12%</td>
</tr>
<tr>
<td>Personal security –</td>
<td>13%</td>
</tr>
<tr>
<td>Farm security –</td>
<td>12%</td>
</tr>
<tr>
<td>Financial security –</td>
<td>15%</td>
</tr>
<tr>
<td>Plant/crop biosecurity –</td>
<td>16%</td>
</tr>
</tbody>
</table>

Under the EDEN HS/FADI project, EDEN began to assess these needs and compare it to existing educational information to see where gaps could be filled. Drinking water specialists asserted that drinking water was not a major threat because of the difficulty in contaminating large quantities of water. Food security was identified as an issue, and EDEN sought funds and means to address it. Therefore,
OnGuard, in the list below and featured on page 42, became an EDEN course.

The Individual’s role and the government’s role in a “world threatened by terrorism” certainly could have used more effort by all parties involved in educating the public, but EDEN determined that the information provided by DHS in their publication “Are You Ready” addressed those needs. Also, resources on personal security, farm and financial security were developed or being developed by EDEN institutions and catalogued onto the EDEN database.

As funding became available, it was apparent that there were areas in which EDEN could contribute. Even though plant/crop security was the lowest priority in the national survey of Extension educators, it was high on the list of agricultural Extension educators. Also, a second EDEN survey (of farmers and agricultural producers) showed that Extension was the number one entity that they would turn to for unbiased information in the event of a suspicious plant or crop disease. Hence, Plant Biosecurity Management became the first EDEN course, which was developed at the University of Missouri.

Beginning with that course, a major effort has been to develop online courses to provide Extension educators and others from across the country with more in-depth knowledge and have train-the-trainer materials available. Online courses now available on the EDEN Web site at www.eden.lsu.edu include:

- Plant Biosecurity Management
- OnGuard: Protecting America’s Food System
- Ready Business
- Pandemic Preparedness for Business
- USDA’s Roles in the National Response Plan
- Pandemic Influenza Preparedness for Faith-Based Organizations
- Animal Agrosecurity and Emergency Management (to be released in early 2008)
- Coming in 2009: Strengthening Community Agrosecurity Planning

In addition to course development, EDEN allocates up to 10 percent of the original cost of development for continued course maintenance.

Also with those funds, EDEN:

- Developed educational materials for major, potential, and existing national disasters, such as:
  - 9/11
  - Sudden Oak Death
  - BSE
  - Hurricanes Katrina and Rita
  - Soybean Rust
  - Foot and Mouth Disease
- Created an Avian Influenza Response Team, led by South Dakota State University

EDEN initiated efforts and partnerships with the:

- United States Department of Agriculture
  - Consult for CSREES at large, and
  - Provide Homeland Security Expertise to Small Business Innovation Research Program
  - National Plant Diagnostic Laboratory Network (NPDN).
  - EDEN provides a liaison to the NPDN operations committee
  - EDEN provides a liaison to the NPDN educational committee
- EDEN shared information on Soybean Rust and Sudden Oak Death
- EDEN maintains a Plant and Crop Security Issue page
  • Maintained at Purdue (until 2006)
  • Maintained at Michigan State University by an NPDN representative (2006 - present)

• Department of Homeland Security
  ◆ National Preparedness Month and Ready Business campaigns
  ◆ Homeland Security Information Network for Food and Ag
  ◆ Citizen Corps

• Centers for Disease Control (CDC’s) — collaborated effort to create the *Pandemic Influenza Preparedness for Faith-Based Organizations* course

• Department Of Justice
  ◆ InfraGard
  ◆ Neighborhood Watch
  ◆ National, multiple agency conference on Pandemic Preparedness

• National organizations involved in disaster management, including
  ◆ National Voluntary Organizations Active in Disaster
  ◆ U.S. Animal Health Association
  ◆ National Emergency Management Association
  ◆ International Emergency Managers Association (starting in 2008)

The combination of institutional and CSREES support help make EDEN a national network that works with Americans across the country on disaster preparedness, mitigation, prevention, response and recovery. EDEN protects the homeland through education of citizens.
When disaster strikes, people need research-based information for recovery, and they need it now. In the absence of an organized network, county-based educators struggled to find the needed educational resources. EDEN rewrote the way Extension professionals shared disaster educational information. As the network formed and more information was gathered, the Web site became a place to share resources. The growing network provided educators with quick and easy access to needed materials; thus, saving time in moments when information dissemination was critical.

Today, the EDEN Web site stands as a portal to research-based information that has been collected and organized based on local, state, regional, and national needs over the last 13 years. Available materials span all hazards, dealing with issues from natural, agriculture, animals, family, community, to human health hazards and threats.

**Online Catalog of Resources**

As the Web site evolved, the capability to share resources was a priority. Therefore, sections of the Web site were deemed necessary to build in a dynamic platform, giving EDEN delegates (who are given login capabilities) the ability to add a reference to their disaster resource on the EDEN catalog of resources in real time. To date, there are 915 resources cataloged.

An individual conducting a search can narrow results by one or more of the following criteria:

- Member Institution
- State
- Type of Resource
- Target Audience
- Disaster Type
- Disaster Phase or Activity
- Aspect

*(1-5 See page 44 for a breakdown of these categories)*

A search can be narrowed further by requesting material that is immediately useful specifically during emergency preparation/early response, response/early recovery, or all phases. Finally, an individual can search by author and/or title, as well as request that only those materials available online be shown.

Though other pages and sections of the Web site provide links to resources outside of Extension – such as federal organizations and non-profit agencies – the catalog of resources houses only materials from institutions of higher education.

**Issue Pages**

The concept of EDEN Issue pages was developed at the 2002 EDEN Annual Meeting. They provide a comprehensive overview of an issue or topic important to Extension audiences. Each Issue is authored by a volunteer EDEN delegate(s) with expertise in the given topic. The purpose of an Issue page is to function as a organized portal to already-existing sources of information. An Issue page is developed so Extension educators can easily find useful information, such as Q & A’s, or printable material for handouts.
To date, there are 16 completed Issue pages that are made available to the public. They are:

- Agrosecurity
- Anthrax
- Avian Influenza
- BSE – Mad Cow Disease
- Children and Disasters
- Classical Swine Fever
- Drought
- Foot and Mouth Disease
- Hurricanes
- Mold
- Pandemic Flu
- Plant and Crop Security
- Snow/Ice
- StormReady
- Tornado
- Tsunami
- West Nile Virus

Like the EDEN Catalog of Resources, the EDEN Issue pages are designed in a dynamic platform referred to as the Page Creation System. Therefore, volunteer authors (once logged into the system) are given permission to write and edit sections of their pages and then submit. Through this system, all pages maintain the same organization and layout, enabling frequent readers to quickly and efficiently search for helpful information.

Each Issue page and its associated sub-pages are required to pass through a review and submission process before being made available to the public. When the editor or author(s) of an EDEN Issue page, or set of pages, has organized and created Issue-related content using the Page Creation System, the page(s) can be formally submitted for review.

A single page of an EDEN Issue that covers one or more aspects of a particular issue can be reviewed, submitted and made available to the public prior to other sub-pages within the same issue undergoing the same process. The understanding is that all EDEN Issue pages are static, but will require updating and expansion as new information becomes available. Therefore, time-sensitive
content within a page can be made available in a short amount of time, while other supporting pages will become available as they are completed.

Overall, establishing a review process for EDEN Issues and their supporting pages provides several benefits:

- It provides a mechanism for editors and authors to gain publishing credit.
- It lends credibility of the Issue, its supporting pages, and the overall EDEN Web site.
- It enables EDEN Issues to maintain consistency across the series.

The following are Issue pages that are in the process of being created, but have not yet been approved to be made available for public viewing:

- Animal Biosecurity
- Drought
- Earthquake
- Emerald Ash Borer
- Exotic Newcastle Disease*
- Floods and Flooding
- Food Protection and Defense
- Homeland Security*
- Role of Government in Disaster
- Soybean Rust*
- Sudden Oak Death*

* Designates EDEN Issue pages that were, at one time, available for public viewing, but have been “unapproved” due to the need to be updated or merged into existing Issue pages as a sub-page.

**State Pages**

On the EDEN Web site, every state is given a single page to populate with state-specific information. This includes a list of member institutions and their designated delegates with contact information. Each institution also has a direct link to a list of resources cataloged only by its represented delegates.

On each state page, there is available space which an institution is encouraged to populate with featured Extension/Land-Grant disaster Web sites and disaster-related state regulatory agency Web sites. This is an editable section of the Web page that delegates have the ability to add and remove resources. In addition, when a delegate catalogs a resource, they can also designate it to be placed on their state page as well.

**EDEN Courses**

EDEN used the survey of Extension educators (described in more detail on page 36) as a directive to base the development of EDEN train-the-trainer courses, and/or to provide links to Extension information, such as that available in Issue pages. The purpose of the courses is to provide educators (whether Extension, public health or other educational professionals) with material that will teach them how to best approach a targeted audience, and then provide them with the necessary teaching tools and materials to teach an audience in a classroom setting. The following are a list of courses in the order they were created:
### Delegate material and information

Any visitor to the EDEN Web site has access to the catalog of resources, Issue pages, and general information about EDEN and the network’s structure. In addition to this, all EDEN delegates are given access to an Intranet portion of the site as well. Once they are logged in, delegates can access a section titled “Member Resources.” This section allows delegates to edit their personal information, edit or add resources from their institution in the resource catalog, and edit or create an Issue page to which they’ve been granted permission.

---

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Developed by</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plant Biosecurity Management Course</strong></td>
<td>Teaching plant biosecurity management to those involved in the U.S. agricultural sector.</td>
<td>EDEN by the University of Missouri.</td>
</tr>
<tr>
<td><strong>OnGuard: Protecting America’s Food System</strong></td>
<td>Helping citizens understand their role in food protection.</td>
<td>EDEN by the University of Minnesota.</td>
</tr>
<tr>
<td><strong>USDA’s Roles in the National Response Plan</strong></td>
<td>Teaching Extension professionals how the USDA and Extension System fit into the National Response Plan.</td>
<td>EDEN by North Dakota State University.</td>
</tr>
<tr>
<td><strong>Ready Business: Preparing a Disaster Business Plan</strong></td>
<td>Helping businesses understand the importance of disaster planning.</td>
<td>EDEN by Purdue University in cooperation with the Department of Homeland Security.</td>
</tr>
<tr>
<td><strong>Pandemic Preparedness for Business</strong></td>
<td>Helping businesses examine the potential impact of a pandemic and develop a disaster plan.</td>
<td>EDEN by Purdue University.</td>
</tr>
<tr>
<td><strong>Pandemic Influenza Preparedness for Faith-Based Organizations</strong></td>
<td>Enabling FBOs to protect the health of their staff and communities, and develop a plan.</td>
<td>EDEN in collaboration with the Centers for Disease Control.</td>
</tr>
<tr>
<td><strong>Animal Agrosecurity and Emergency Management</strong></td>
<td>Teaching animal agrosecurity and emergency management to those involved in the U.S. agriculture sector.</td>
<td>EDEN by the University of Kentucky.</td>
</tr>
</tbody>
</table>
been given permission. In addition, they also have access to the following:

- EDEN Strategic Planning
- EDEN Operating Guidelines
- EDEN Proposals & RFPs
- Member Institution Reports
- Marketing & Informational Materials
- Committee Meeting Minutes
- Annual Meetings
- Annual Meeting Planning Guide
- 2007 National Preparedness Month
- Guidelines for Program Development
- Sample State Planning Documents
- How to Build an Issue Page
- How to Catalog Resources
- Web Site Evolution
- Email Lists
Available search criteria within the EDEN Catalog System (discussed on page 39):

<table>
<thead>
<tr>
<th>(1) Type of Resource</th>
<th>(2) Target Audience</th>
<th>(3) Disaster Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Book/Handbook/Manual/ Poster</td>
<td>Business Owners/Operators</td>
<td>Ag Disasters (disease/pestilence)</td>
</tr>
<tr>
<td>eNews/Tips</td>
<td>Children/Youth</td>
<td>Animal Biological/Pest/Chem Threat</td>
</tr>
<tr>
<td>Fact Sheet/Small Brochure</td>
<td>Disaster Professionals</td>
<td>Any or Generic</td>
</tr>
<tr>
<td>Interactive CD-ROM</td>
<td>Elected Officials/Policy Makers</td>
<td>Chemical Incident/Release</td>
</tr>
<tr>
<td>Internet Web site</td>
<td>Extension Educators/Teachers</td>
<td>Drought</td>
</tr>
<tr>
<td>Learning module</td>
<td>Farmers/Ranchers/Producers</td>
<td>Earthquake</td>
</tr>
<tr>
<td>MOU/ MOA or other Agreement</td>
<td>General Public (Adults)</td>
<td>Explosions/Mass Destruction</td>
</tr>
<tr>
<td>News Release</td>
<td>Scientists/Engineers</td>
<td>Fire (Wildfire)</td>
</tr>
<tr>
<td>Poster Disaster Report/ Assessment</td>
<td>Seniors</td>
<td>Flood</td>
</tr>
<tr>
<td>PSA-Audio</td>
<td></td>
<td>Food Handling/Processing Bio/ Chem Threat</td>
</tr>
<tr>
<td>PSA-Script</td>
<td></td>
<td>Heat Wave</td>
</tr>
<tr>
<td>Published Paper/Report</td>
<td></td>
<td>Human Bio-Threat or Disease</td>
</tr>
<tr>
<td>Resource/Data Collection</td>
<td></td>
<td>Hurricane</td>
</tr>
<tr>
<td>Response/Mitigation Plan</td>
<td></td>
<td>Landslide</td>
</tr>
<tr>
<td>Showcase Facility</td>
<td></td>
<td>Levee/Dam Failure</td>
</tr>
<tr>
<td>Study Course/Curriculum</td>
<td></td>
<td>Moisture (Mold)</td>
</tr>
<tr>
<td>Videotape (Educational)</td>
<td></td>
<td>Natural Hazards</td>
</tr>
<tr>
<td>Visual or A/V Presentation (PowerPoint)</td>
<td></td>
<td>Nuclear Incident/Release</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Plant Biological/Pest/Chem Threat</td>
</tr>
<tr>
<td>(4) Disaster Phase or Activity</td>
<td>(5) Aspect</td>
<td>Power Outage</td>
</tr>
<tr>
<td>Being Prepared</td>
<td>Animal Handling/Evac/Rescue</td>
<td>Terrorism</td>
</tr>
<tr>
<td>Communicating Risk</td>
<td>Building/Landscape Protection/ Restoration</td>
<td></td>
</tr>
<tr>
<td>General or Multiple</td>
<td>Business Operation Protection/ Recovery</td>
<td></td>
</tr>
<tr>
<td>Recovering</td>
<td>Community Planning/Management</td>
<td>Thunder Storm</td>
</tr>
<tr>
<td>Reducing Vulnerability (Mitigating)</td>
<td>Coping Mentally and Financially</td>
<td>Tornado</td>
</tr>
<tr>
<td>Responding</td>
<td>General or Multiple Aspects</td>
<td>Tsunami</td>
</tr>
<tr>
<td></td>
<td>Hazard Identification/Description</td>
<td>Volcano</td>
</tr>
<tr>
<td></td>
<td>Individual/Family Preparedness</td>
<td>Wetland/Riparian Loss</td>
</tr>
<tr>
<td></td>
<td>Legislation/Regulation/Codes</td>
<td>Winter Weather</td>
</tr>
<tr>
<td></td>
<td>Public Health and Safety</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Surveillance/Detection/Reporting</td>
<td></td>
</tr>
</tbody>
</table>
Appendix

• Success Stories
• Web Resources
• Supplemental Presentation
• Handouts
All disasters are local. The success of EDEN has been state-by-state in addressing disaster issues.
ALABAMA

AUBURN UNIVERSITY

Hurricane Preparedness
To help on-going efforts to rebuild Mobile County following Hurricane Katrina, in 2007 ACES elected to sponsor a Habitat House in the county. The first of its kind to be built by Habitat volunteers in the Mobile Habitat area, the house is a steel-frame construction and will feature energy-star appliances, doors, and windows. Due to complications—weather, city codes, and construction problems—the house, begun in July, is not yet completed.

Immediately prior to the start of the 2007 hurricane season, we shipped revised copies of After the Disaster, 2007: Helpful Information in Times of Crisis and Disaster to all 67 counties. The CD contains 85 documents—publications, posters and timely information sheets—grouped in the categories of food safety, financial management, insurance, family, home and lawn, farm, and recipes.

Training
We provided First Aid and CPR training to Extension personnel in the spring. Training, provided by the American Red Cross, was held at 9 sites around Alabama between March and May. A final session was held in August. One hundred thirty employees took advantage of the 10 training sessions. We plan to offer re-certification sessions in 2008.

I provide a Ready Tip for inclusion in the ACES monthly electronic newsletter. The tips, usually highlighting a timely activity such as fire safety month, have been well received. However, I do not know if people are taking the suggested actions.

National Preparedness Month
I provided the EDEN link to the NPM materials to all Extension employees, but have received no feedback regarding their use of the materials.

In cooperation with their supervisors, I asked counties to complete a Continuity of Operations Plan template during September. The next step is to design a training session based on their COOPs.

Locally, I served on the Ready Lee County Coalition. We held several activities during the month to raise awareness. Activities focused on each week’s theme and concluded with a Plan to Prepare community event held in the Home Depot parking lot. Cooperating agencies, organizations, and private businesses manned booths. Scheduled “how to” events were held inside the store. There was a small turnout for the first year, but plans are already underway for a similar event next year.

Submitted by: Virginia Morgan

COLORADO

COLORADO STATE UNIVERSITY

Colorado State University Extension agricultural agents were on the front lines of Southeastern Colorado’s response to livestock emergencies during and after the 2007 snow storm disaster.
Throughout Southeast Colorado, Colorado State Extension and Agricultural Research Station staff provided their local connections, communications capabilities, and agricultural knowledge to meet crucial emergency resource demands. The Extension Disaster Emergency Network (EDEN) response began with an early New Year’s Day call from Bill Bennett, Director of Homeland Security-Colorado Department of Agriculture, to Dr. Marc Johnson, interim director of Colorado State University Extension asking for immediate EDEN mobilization. Tom McBride, EDEN director, immediately began contacting Extension agents in the hardest hit areas.

The goal was to engage a local Extension agent with agricultural experience and knowledge to serve in each county's Emergency Operations Center to gather needs, locations, and access to livestock feed, water, and delivery capabilities, and provide the information to the central command post in Lamar for prioritization, according to McBride and Bennett.

As integral community members, Extension agents are uniquely positioned to identify the local needs and available community resources, and communicate throughout the broader emergency response network.

Leading the charge was Leonard Pruett, Southeast Area Extension director and 38-year veteran of Colorado State University Extension. Pruett, along with Extension’s Scott Brase of Prowers County and Bruce Frickenscher of Kiowa County, worked tirelessly with the Lamar central command. Approximately 2,000 bales of hay were sourced from local area producers, loaded into National Guard helicopters and dropped to 18,000 cattle.

Similar stories unfolded throughout the region with Extension agents working through the days and weeks to assist the local communities.

Submitted by: Tom McBride

CONNECTICUT

UNIVERSITY OF CONNECTICUT

There have been no major disasters in Connecticut during the past year. A general recognition of emergency planning and education have been gaining acceptance and is getting integrated into plan of work considerations for some.

Highlights:
The EDEN POC participated in a university planning committee of vulnerable equipment and systems within university facilities. It was decided (by the university) not to make the committee report public. Essentially, the report categorized and inventoried facility deficiencies into life and safety issues, career and research threats, and other priority designations. Backup generation for research freezers, network vulnerability, locks, water use, developing and integrating emergency contact efforts, student notification systems such as sirens on campuses are examples of some of the topics covered. The effort supplemented shorter term emergency response plans for fire and police already in place and will help guide activities and improvements for facilities staff and those responsible for equipment.
A mild drought in the state has caused some wells to go dry and triggered conservation efforts in a few communities. Extension has a water quality and resource web site (http://www.sustainability.uconn.edu/) and a new this year interactive site (primarily for New England private water well and land owners) http://www.healthyhome.uconn.edu/. Reducing water runoff research: http://www.jordancove.uconn.edu/, and reports on Connecticut drought impacts: http://www.ctiwr.uconn.edu/

One research project in the college used satellite and GIS information to look at flood insurance maps. The map data that has been used in the past was found to be flawed and suggestions were made to improve accuracy. This is important as these maps are used to determine insurance coverage in hurricane and flood prone areas. A poster display is being presented to the EDEN conference with more detail.

An extension fisheries specialist has been traveling to Thailand to develop sustainable fishing after the tsunami in 2004. “Turning disaster into opportunity” can be found at http://www.seagrant.uconn.edu/tsunami.pdf. Copies of the project will also be at the conference.

Two new delegates are being added from Connecticut to EDEN, one from the Sea Grant program, and one from 4-H.

Submitted by: Bruce Wilbur

FLORIDA

UNIVERSITY OF FLORIDA

The 2007 hurricane season has been active with significant storms. Fortunately, no storms have steered this way yet. – Florida’s wildfire season was exacerbated by the ongoing southeastern drought. In May, the governor declared a wildfire emergency and activated the state Emergency Operations Center. – The Governor declared July 31, 2007 as “Animal Disaster Preparedness Day,” to increase awareness of animals in disaster issues and to encourage Floridians to properly identify the animals in their care, assemble disaster kits, and make evacuation plans.

Florida State Agricultural Response Team (SART) – www.flsart.org – Now in its fifth year, Florida SART held its first statewide conference in Tampa. SART is working with seven pilot counties to develop its program of activities in more detail. Extension plays a key role in SART leadership, in networking, and in developing training programs over 20 training units cover many areas of agriculture or security issues. Recently added are Biosecurity for Florida Producers and Emergency Management of Large Animals. Under development are Evidence Collection and Emergency First-Aid for Pets.

Addressing the Needs of Older Adults in Times of Disaster: An EDEN Based Program –This project will develop and disseminate, through EDEN, a multi-state, county-based Extension educational program to meet the specific needs of older adults and their caregivers in disaster preparedness, mitigation, response, and recovery. Extension specialists in nutrition, food safety, health, gerontology, caregiving, housing, and resource management will adapt their disaster-related materials for older adults. The resulting resources will be disseminated through EDEN, eXtension, and at the local level by county Extension professionals. The program will be rigorously reviewed and evaluated. Availability of these materials is likely to increase the frequency with which older adults turn to their Extension service for
timely, research-based information regarding disasters, through EDEN or county Extension offices.

**Emerging Pathogens Institute** – [http://epi.ufl.edu/](http://epi.ufl.edu/) – The University of Florida’s Institute for Food and Agricultural Sciences (IFAS) and the Colleges of Medicine, Veterinary Medicine, Dentistry, Engineering, and Liberal Arts and Sciences are working together to develop research capability to prevent and contain outbreaks of new disease that threaten Florida. Researchers in the Emerging Pathogens Institute will study diseases affecting plants, animals, humans, and food safety. The Institute will be housed in a new 108,000-square-foot facility. Training and outreach will be major components of the Institute in order to educate the people of Florida on steps they can take to avoid human disease as well as helping the private sector avoid diseases that affect plants and animals. Dr. Glenn Morris, chair of epidemiology and preventive medicine at the University of Maryland and an internationally recognized public health scientist, was appointed director of EPI in April 2007. The Pathogen Research Facility is scheduled for completion in March 2009.

**Solutions for Your Life** – [http://solutionsforyourlife.ufl.edu/](http://solutionsforyourlife.ufl.edu/) – Florida Cooperative Extension has launched a major Web portal which provides a new means of access to Florida’s Disaster Handbook and the range of other disaster-related Extension materials. “Disaster Preparedness and Recovery” is one of seven major topic areas under which Florida Extension’s wide variety of resources are organized. SFYL has been the subject of a major publicity campaign, including billboards and television advertisement. The goal of the portal and the campaign is to provide the public with a starting point through which they can locate any Extension information they may need based on their area of interest rather than internal areas of specialization or administrative units.

**Care Competencies for Disaster Preparedness** – [http://www.phhp.ufl.edu/services/disasterprep.htm](http://www.phhp.ufl.edu/services/disasterprep.htm) – Two presentations have been developed in the University of Florida College of Public Health and Health Professions to assist hospitals in the development, implementation, coordination, and evaluation of their disaster preparedness and response training programs. The programs introduce the Incident Command System, which has become the standard for incident response. Many specific scenarios are also reviewed, especially disease organisms which might be used against civilian populations.

**Florida Veterinary Reserve Corps** – The University of Florida has established a program to enlist veterinarians and veterinary technicians for voluntary service in responding to animal emergencies in Florida. During an emergency, Corps members will work within the incident command structure under ESF-17 as part of the State Agricultural Response Team (SART). Volunteers may work with infrastructure assessment teams, in triage or emergency animal treatment teams, or in disease surveillance or control teams.

Submitted by: Charles Brown

**GUAM**

**UNIVERSITY OF GUAM**

**National Emergency Preparedness Month**

In support of the National Preparedness Month and Extension Disaster Education Network (EDEN), the University of Guam Cooperative Extension Service participated as a collaborator with the Guam Homeland Security Office of Civil Defense outreach efforts on September 29th at the Guam Premium
Appendix - Success Stories

Outlet. Extension's showcase included the distribution of the In Case of Emergency Contact card information, information about EDEN along with a short survey on identifying the following: unmet disaster needs and top 5 food items. This included also the debut of the Disaster preparedness toolkit.

Other preparedness venues included attending the very well publicized Top Officials (TOPOFF4) preparatory drills which occurred on October 15-19, 2007. TOPOFF provides an opportunity to realistically test and strengthen critical prevention and response capabilities in attacks of Weapons of Mass Destruction (Simulated detonation of Radiological Dispersal Devices (RDD) in three separate venues). This is a first for Guam to be included in the TOP Official series between a U.S. territory and the continental U.S. TOPOFF 4 features both the full-scale exercise and using information gathering, intelligence analysis and information sharing that will help thwart terrorist activities. preparedness objectives focus on five areas: Prevention, Intelligence/Investigation, Incident Management, Public Information, and Evaluation. During one of the evaluation sessions (Washout activity) the following areas of work requiring shoring up include: Communication (Gathering and flow of information from site to command center), Comprehensive Incident Action Plan, and Command/organizational structure (noting change towards national Emergency Support Functions –ESF). Extension participated alongside the University of Guam Response Activity Coordinator as both an observer and a participant during the central command activities and teaming planning sessions. The University of Guam is part of the Education and community workgroup (Guam Community College, Guam Public School System, and the Guam Housing and Urban Renewal Authority). This indeed was a learning session and opportunities for EDEN to interface with this community cover all areas. Two key interesting observations was the reference to credible and current data sets (demographics as it relates to logistics and serving the impacted community and the need for developing a certification training system for emergency and volunteer workers, this is an area of work being considered and would like to invite EDEN to consider including this as a focus area of work.

Submitted by: Peter R. Barcinas

HAWAII

UNIVERSITY OF HAWAII

CTAHR’s (College of Tropical Agriculture and Human Resources) Extension Conference in May 2007 focused on emergency preparedness and included topics on Campus emergency preparedness plan, Pandemic influenza, West Nile Virus, and a briefing on EDEN. CTAHR is partnering with the Hawai’i Department of Health in outreach efforts for West Nile Virus. The University of Hawai’i at Mānoa hired an Emergency Management Coordinator in 2006 and made a presentation to extension workers on campus emergency preparedness.

Hawaii Sea Grant officially became a member of EDEN in 2007, and currently includes two coastal lands/coastal hazards extension agents on the island of Oahu and one on Maui, with a fourth position currently under establishment on the island of Kauai. The hazard-related focus areas of Hawaii Sea Grant include tsunami inundation mapping, sea-level rise inundation mapping, shoreline change mapping, run-up modeling, coastal hazard mitigation and erosion control, erosion rate-based construction setbacks, and public education and outreach.

Recent publications of Hawaii Sea Grant include Homeowner’s Handbook to Prepare for Natural
Hawaii Sea Grant is currently participating in the development of a Hawaii State Civil Defense Coastal Disaster Recovery Plan to include considerations for hurricanes, tsunami, coastal flooding, coastal erosion and sea-level rise. The anticipated outcomes of the plan are to allow for rapid recovery in affected areas while facilitating natural ecosystem recovery, and to enable communities to implement hazard mitigation strategies for subsequent events.

In recent years, Hawaii Sea Grant has supported high-resolution mapping of historical shoreline change for the islands of Oahu, Maui and Kauai. Extension efforts on Maui, the first island to conduct the study, led to the development and adoption of erosion rate-based construction setbacks, which are now also under development on Kauai. The Maui setbacks require new structures to be built at a distance of no less than 50 times the annual erosion rate plus a 25-foot buffer back from the certified shoreline, a significant improvement over the previous lot-depth-based setbacks. A strong emphasis continues to be placed on science-based planning, with Hawaii Sea Grant’s support of tsunami inundation modeling, sea-level rise inundation modeling, and storm wave inundation modeling currently underway. Early results from these studies are already being incorporated in long-range planning and the development of improved hazard mitigation and resource protection legislation, and are also under consideration for use by hazard response agencies such as the Pacific Tsunami Warning Center.

Submitted by: Wayne Nishijima and Zoe Norcross-Nu’u

ILLINOIS

UNIVERSITY OF ILLINOIS

February 13 brought record snows to the east-central part of the state. The 23 inches received in Champaign-Urbana closed the University of Illinois main campus for two days, a totally unprecedented event. Luckily, there was few power outages associated with the storm so the need for Extension involvement was minimal. Everybody just stayed home. (It was an interesting trial of how some of us might work from home during a Pandemic Flu event.) It was also a good test of the University’s emergency communications procedures, which would have probably been graded at a B-minus. A new system will be activated very shortly.

Local Extension offices did provide drought information to scattered areas of the state in the spring. For the most part, rains at precisely the needed time in the crop cycle alleviated some concern, but large parts of the state still have at least a moderate moisture deficit.

Summer brought serious flash flooding to the far northern part of the state and Chicago’s northern suburbs. Extension provided EDEN and our own flood recovery material.

We’ve been ramping up presentation of the Ready Business course around the state. Both the POC and delegate have presented several sessions and the pace is picking up. In addition, the POC has
been working with Extension offices on a region-by-region bases (Extension has five regions in Illinois) to examine and improve preparedness at the office level. Our East-Central region adopted a Mississippi Extension office after hurricanes Katrina and Rita and we’ve been applying some of the lessons they learned about trying to get back up and operating after their office was destroyed. In addition, Ready Business provides a useful model for our own recovery plans. Our previous document was fairly cumbersome. The Ready Business model is much more practical.

A couple of our far Southern Illinois counties were successful in obtaining a small special needs grant from USDA to facilitate planning for the first multi-state earthquake conference in several years. States along the New Madrid fault will be invited to participate. The POC will be involved in conference planning.

EDEN’s champion in U of I Extension administration, Glenn Seeber, retired this year and his position was vacant for several months so some of our other efforts to encourage the installation of AEDs in our offices and the possible acquisition of a couple satellite phone systems have been stalled in the short term. That position was recently filled and I believe we’ll have a solid working relationship with the new Assistant Director.

Submitted by: Rick Atterberry

INDIANA

PURDUE UNIVERSITY

Food Safety Messages for Underserved Audiences
Purdue AgComm is beginning a three-year commitment to a four-year NIFSI grant – “Integrating Social and Biological Sciences to Enhance Adoption of Vegetable Safety Behaviors from Farm to Table.” Other partners are Ohio State and Kentucky State. Our goal is to research and develop food safety messages and communication strategies particularly with underserved consumer audiences. Though this project may not be related to worst-case disaster scenarios exclusively, it will deal with potential unintentional and intentional contamination on the farm, at the retailer, or in the hands of the consumer. (Abigail Borron, Mark Tucker)

Disaster Resources Web page
The Indiana EDEN page was revamped this year. This is the eleventh year Purdue Extension has provided a disaster resources Web page that receives more than 100,000 visits per year. (Cain, Borron)

CFS Team State Award: Disaster Preparedness: Prepare to Lead – Lead to Prepare
In 2005, tornadoes killed 22 people in southwestern Indiana. Hundreds have been displaced by floods. Prepare to Lead – Lead to Prepare educated participants in southwest Indiana on a variety of “what if” emergency situations. In one county, people participated in an event where lunch consisted of items that are typically kept in a personal preparedness kit. Hundreds of people in Indiana learned more about being prepared. (Peggy Davis, Jackie Bauman, Polly Getttinger, Sue Berg, Alice Alderson, Lori Bouslog, Linda Reynolds, and Deanna Franklin.)

Effective Communication
Purdue Extension taught the Indiana Department of Homeland Security “Effective communication” course for the 5th year. It involved 15 Public Information Officers from about 10 counties. The students
were from fire departments, health departments, emergency management and volunteer organizations. (Cain, Borron)

**Indiana Food Safety and Defense Task Force**
Purdue Extension participated in the Indiana Food Safety and Defense Task Force. Cain presented information on EDEN to more than 50 key stakeholders from Indiana government and industry interested in food defense. (Cain)

**Voluntary Organizations Active in Disaster**
Purdue Extension became more involved with the Indiana Voluntary Organizations Active in Disaster. In 2007, Cain was elected vice-president of the IN VOAD and took over leadership of the Indiana VOAD Web site <http://www.invoad.org/>. (Cain)

**Flood Response: Healthy Homes**
In 2007, CFS educators began to identify a team to help respond when homes become damaged by floods or water damage during storms. (Cain)

**Tornado Response**
Tornadoes stuck Indiana on Friday, October 19, injuring five and destroying property. Purdue Extension immediately responded with recovery information. (Jeff Burbrink, Diane Cook, Bob Yoder)

Submitted by: Steve Cain

**IOWA**

**IOWA STATE UNIVERSITY**
Erratic weather, recent flooding conditions and some severe ice storms earlier this year prompted Iowa State University Extension to update their disaster Recovery website. The website sections that have updated materials are flooding, crops concerns, tree damage, disaster resources, and emergency tips. The website address is: http://www.extension.iastate.edu/disasterrecovery/

Food Safety – from farm to table website has some new additions. Sam Beattie Food Safety Extension Specialist is a contact for additional food safety information. The Food Safety website under consumer information has updated material for keeping food safe during an emergency by source from USDA Food Safety and Inspection Service. https://www.extension.iastate.edu/foodsafety/consumers/index.cfm?articleID=275&parent=1

Addition location for information about food safety and power outage was updated and is located at: http://www.extension.iastate.edu/healthnutrition/food/safety/power_outages.htm

ISU’s Pandemic Flu Task Force developed a draft plans the event the university would have to suspend operations for seven to 10 weeks during a pandemic. http://www.ehs.iastate.edu/publications/miscdocs/pflu.pdf

Center for Food Security and Public Health celebrated the fifth year since it was established in 2002. The CFSPH works to increase awareness of bioterrorism, agroterrorism, foreign animal diseases, and
zoonotic diseases; provide tools on biological risk management; and assist local and state governments to prepare for animal emergencies. Resources of the center can be located at http://www.cfsph.iastate.edu/default.htm

Ticks and Tick-borne Diseases in Iowa PM 2036 is a new publication developed this year. The publication offers information on the three most common ticks found in Iowa, the time of year they are active, and the types of disease that ticks can transmit to humans and animals. The publication has gained acceptance outside Iowa. http://www.extension.iastate.edu/Publications/PM2036.pdf

Iowa Emerald Ash Borer task force is assembled to determine if the emerald ash borer is in Iowa. This is a partnership with ISU Extension entomologist and Iowa DNR and Iowa Department of Agriculture and Land Stewardship. An article about this effort is at http://www.iastate.edu/Inside/2007/1005/ash.shtml

The Iowa Asian Soybean Rust team, composed of ISU Faculty, ISU Extension specialists, IDALS and Soybean Association are active. Iowa State University confirms presence of soybean rust in Iowa Fields. Informational website for Asian Soybean Rust is: http://www.plantpath.iastate.edu/soybeanrust/

A scheduled briefing about EDEN and resources along with information about local county emergency coordinators will be hosted for county extension education directors in December. This continuing education session will assist new ISU directors and refresh long term directors.

Submitted by: Charles V. Schwab

KANSAS

KANSAS STATE UNIVERSITY

May 4 - Tornado in Kiowa County/Greensburg – One Kiowa county agent lost her home and the other had her daughter’s family move in with her after their home was destroyed, plus the Kiowa Co. Extension office (in the courthouse) was largely destroyed. In view of that, a working group, including communicators, administrators, subject specialists and agents on campus and across the state met weekly (via teleconference) for several weeks to assess and plan responses to this disaster for our agents, office professional AND residents of area affected. Just a few of the many actions taken by K-State Research and Extension included agents from adjoining counties coordinating efforts to clean area farm fields of debris and rebuild fences; 4-H clubs holding fundraisers to aid tornado victims (several thousand dollars raised); techs on campus posted a link to (updated) disaster recovery resources more prominently on the K-State Research and Extension home page AND updated the Kiowa County page with information residents needed to know, including links to KSRE and other state and national resources; and released several news articles to broadcast and print media outlets (including a reminder that disaster recovery information is available at all county extension offices and on the Web...these included a reference to EDEN). Animal scientists contacted pharmaceutical co.’s to arrange for free antibiotics for injured animals; helped with information about proper carcass disposal; worked with Farm Service Agency, USDA’s Risk Management Agency to publicize and host recovering meetings for farmers in the areas affected; Extension Master Gardeners and Kansas Forest Service working on plan to plant trees in Greensburg next spring; numerous volunteers helped move the Kiowa Co. extension office to Mullinville temporarily, then back to Greensburg (now in doublewide mobile facility). The Kansas All-Hazards Behavioral Health program team (based at K-State) made many trips to Greensburg to
provide supportive outreach and crisis counseling beginning May 7th (teams ranged from 9-29 outreach workers). Kansas PRIDE program sent requests for assistance to 60 PRIDE communities and many of those communities responded.

**July - Southeast Kansas Floods** – The working group that came together initially for the May 4 tornado was reconvened to address the needs of county agents and the public. Several specialists and agents wrote newspaper articles and did radio broadcasts on cleaning up after a flood; worked with Farm Service Agency, USDA's Risk Management Agency to publicize and host recovering meetings for farmers in the areas affected; and produced flood recovery information packets that were distributed by the Red Cross and FEMA. Because this happened in several counties RIGHT before county fair time, numerous agents were involved in helping decide whether to hold fair activities at other locations or cancel their fairs.

**H5N1 Avian Flu** – A working group continued to meet routinely, following up the work it began in 2006. As part of this committee’s work, it developed a Risk Communications Plan with a Situational Analysis; Goals; List of Participants in Dept. of Communications working group and advisory committee (including KSRE specialists and partners from outside agencies); Target Audiences; Key Messages; List of Spokespersons; and Strategies and Tactics. The working group met through 2006 and spring, 2007 to accomplish several goals. They suspended meetings for most of the summer, but met in late August, 2007.

**General** – All of these disasters (and more) were a backdrop for a Kansas EDEN group to secure startup funding, develop a new Web presence, develop a survey for agents, specialists, administrators and office professionals and give a presentation on EDEN and Kansas EDEN efforts at K-State Research and Extension’s Annual Conference in October, 2007.

Submitted by: Mike Bradshaw

**LOUISIANA**

**LOUISIANA STATE UNIVERSITY**

The LSU AgCenter and Louisiana Cooperative Extension have continued to be very involved in recovery from hurricanes Katrina and Rita. Our Louisiana House Home and Landscape Resource Center, a showcase for sustainable housing, was halted at mid-construction after the 2005 hurricane season - while structural hurricane resistance features were clearly visible. Since that time we have been conducting open houses every Friday. Many professional organizations, including FEMA and “Road Home” personnel stationed in south Louisiana for the recovery effort, have toured (and been engaged as volunteers in) LaHouse. In June, as part of a FEMA-funded education program, using a Build Safer Stronger Smarter theme, we conducted six Hurricane Resistance Days at LaHouse. In October 2007, the open-houses were suspended so we could complete construction. We anticipate completion in early January, and a “grand opening” on Earth Day, 2008.

The FEMA funding for Build Safer Stronger Smarter has also supported our work with a FEMA mitigation contractor to develop the campaign, produce new recovery outreach print and video materials and seminars, and develop and deliver training for building contractors. The 15-month project ends in December, but will leave us well positioned with good tools to move forward with much needed education
and training as we continue with the Katrina/Rita recovery. As part of this project, Louisiana Sea Grant is developing a Coastal Mitigation Guidebook for Louisiana, modeled on a similar publication from Hawaii. LSU AgCenter/Extension is also developing the home Design and Construction Information component of the Road Home (HUD-funded) housing recovery program; Department of Energy funds are supporting a Healthy Homes training program, and a small research project is underway through our Forest Products Lab on controlling moisture problems associated with insulating floors over crawl-spaces in flood-prone areas.

Recovery of the areas hit hardest by Hurricane Katrina is dependent on returning families being able to find childcare. The AgCenter’s child development group is engaged in a massive program to train child care providers in the recovery area. Efforts are underway to rebuild and staff child care facilities. Other Family and Consumer Science specialists are involved with research counterparts in the School of Human Ecology on a family recovery research project, related to family resilience. Also, three FCS faculty are participating in a Florida-Extension led project to develop disaster preparedness and recovery resources for seniors. As we go forward, Sea Grant and Cooperative Extension are participating in multi-state community resilience planning initiatives. Two efforts worthy of mention, both led by the National Oceanographic and Atmospheric Administration, are the Risk Wise Networking Partnership (a national effort with a coastal focus), and the Gulf of Mexico Alliance – Resilience Working Group. These efforts and the terminology used in them appear to have emerged from the Subcommittee on Disaster Reduction’s (www.sdr.gov) Grand Challenges for Natural Disaster Reduction report, issued in June 2005.

In the coastal areas Extension agents continue to be involved in the recovery of the fisheries industry, helping fishing businesses obtain small business recovery grants and helping industry leaders develop plans to restore the fishing industry infrastructure along the coast as a series of public facilities – a strategic move that provides for greater resilience and quicker recovery from future storms. AgCenter/Sea Grant Extension agents – for the second year running - teamed with GIS and surge modeling capabilities on campus, to offer a series of hurricane preparedness workshops for coastal communities, in collaboration with local emergency planning committees and economic development interests. In May, the man-behind-the-models for this outreach project joined the AgCenter/Sea Grant faculty as a Coastal Engineering Extension Specialist. The sophisticated hurricane surge modeling capability he brings to the organization raises the level at which we are able to participate in evaluating coastal recovery strategies, visualize hurricane risk for our audiences, and assist in hurricane response activities.

Extension agents continue to be involved in the long-term community recovery planning efforts across south Louisiana both for general community recovery and recovery and preparedness within the agricultural community. Our Extension Veterinarian has developed a series of hurricane recovery fact sheets for livestock; these are made available through a single portal on the web, which has been added to the EDEN catalog of Extension resources. LSU AgCenter/Extension specialist and agents participate in and support on-going agrosecurity programs conducted by the Louisiana Department of Agriculture and Forestry (our regulatory agency). In addition, AgCenter and Extension faculty and agents have been directed to complete ICS and NIMS training (first line responder level), and all AgCenter units, departments, parish offices and research stations are completing SCOOPs (Adding Continuing of Operations Plans to the existing Safety Plans).

We are engaged in the many efforts to update and upgrade the state’s emergency response plan and procedures. In addition to its ongoing support for community recovery, the AgCenter has been recovering from $20 million in losses to its own facilities, with a priority given to re-establishing offices.
to serve the devastated communities. As the two-year anniversary of the nation's worst natural disasters rolled around, the AgCenter produced a tabloid for local governments and legislators documenting its contributions to the Katrina and Rita recovery.

Submitted by: Pat Skinner

MARYLAND

UNIVERSITY OF MARYLAND

Situation: The State of Maryland is a major hub for world travel and its close proximity to Washington, DC makes it a potential target for acts that threaten agro-security. And natural disasters are a fact of life. Our communities must be able to identify potential threats and act appropriately to eliminate them, as well as be prepared to respond to and recover from all types of hazards.

Plan of Action: University of Maryland Cooperative Extension’s Center for Agrosecurity and Emergency Management (CAEM) obtained a third Homeland Security grant as collaborative effort between the College of Agriculture and Natural Resources (AGNR) and the Maryland Department of Agriculture (MDA), to continue to coordinate emergency preparedness, response and recovery through education, outreach and communications, helping to ensure agricultural and food defense by building partnerships between the agricultural/rural community, agencies, industry groups and organizations. However, due to a change in State administration, these funds will be used to help satisfy the Department's statutory requirements, rather than outreach and education. The Center and the Maryland Extension Disaster Focus Team will be seeking other sources of funding for these initiatives.

- Agricultural Local Emergency Response Team (ALERT) network- Extension faculty and partners throughout the state have volunteered to be the Center’s “eyes and ears” and provide real time reports from agricultural/rural areas in the event of an emergency. They are also encouraged and assisted in building partnerships with local emergency managers and agencies. ALERT members have received training and equipment.
- Networking- partnerships are continually being built and strengthened, currently with over 40 state agencies and private organizations.
- Information transfer-
  - Development of Tip Sheets and other educational materials, as well as a website (www.agrosecurity.umd.edu).
  - Development of educational Presentations
- eXtension- Participating on the EDEN eXtension Agrosecurity Community of Practice. In addition, Maryland EDEN members, in cooperation with South Dakota, are spearheading the initiative to develop and implement an eXtension Avian Influenza Community of Practice. A start-up grant for this effort was provided by the Dean of the University of Maryland College of Agriculture, which will continue as a part of the EDEN Pioneer Communities of Practice.

Results

- Presentations developed by faculty, include “Continuity of Operations for Farm Businesses”, “Biosecurity” and “An Introduction to Agroterrorism”. These topics have been presented to farmers, crop advisors, agriculture teachers, emergency managers, first responders and others to
Appendix - Success Stories

build awareness and promote preparedness. The Center display, publications and demonstrations are being used by faculty and others at fairs and exhibits, including 2 hands-on awareness demonstrations for the general public to discuss emergency preparedness and biosecurity - making “tiny tornados” and “looking for sick little plastic farm animals (using Glo-germ)”. The Center has been invited to provide educational presentations and displays to over 30 stakeholder organizations to discuss Agrosecurity and agriculture’s role in emergency management. As a result of outreach, the Center continues to receive requests.

• 13 one-page “tip sheets” on topics such as Avian Influenza, and most recently “Caring for your Pet in an Emergency”, as well as awareness level materials on farm security, farm signage for biosecurity, Animal Health Watch (Foreign Animal Disease) information cards and “what to report to authorities” have been developed by the faculty and are being used in educational programs.

• The Center co-sponsored the EDEN Northeast Regional Animal Agrosecurity Conference with Pennsylvania, funded by CSREES. Over 60 Extension professionals, State agency representatives from Agriculture, Health and others spent 2 days exploring the role of Extension faculty in emergencies and sharing information.
  - Maryland used information provided at this conference by Dr. Steven Van Wie on the Foot and Mouth Outbreak in Britain to develop an effective presentation on Agrosecurity and AgroTerrorism.
  - Extension collaborations developed also allowed EDEN members from the Northeast region to obtain a CSREES grant to develop Continuity of Operations Workbooks for farm businesses.

• Maryland is collaborating with South Dakota on the development of EDEN’s Avian Influenza Response Team. Our Extension Poultry specialists have joined the team and are also working on the eXtension Community of Practice. In addition, the Maryland team also obtained a CSREES grant to develop a Backyard Poultry Biosecurity Education Program.

• Maryland served as a beta-reviewer for the EDEN Animal Biosecurity and Emergency Management Course.

• Maryland 4-H sponsored a 4-H Alert Evacuation Shelter training program for Maryland, Washington D.C. and Delaware participants through CSREES and the University of Nevada. The Center provided a presentation on hurricane awareness for the group. At least one group of volunteers in Maryland has received their GPS software, attempted a small pet mapping project and has begun recruiting for the program.

• Family and Consumer Sciences specialists sponsored a training for faculty on emergency planning for Daycare Providers, to assist them in working with that audience.

Submitted by: Pamela B. King

MINNESOTA

UNIVERSITY OF MINNESOTA

The MN-EDEN team was formed in late 2005, following Katrina, and was jump-started by several Extension staff and faculty attending the 2005 meeting in Fargo. Coordination and administrative activities of the team have been led since late 2006 by Bob Byrnes, Regional Director in Marshall, Minnesota. The team met early in 2007 to begin planning for drought conditions including a snow drought in several areas of the state. The northeast quadrant of the state was most heavily affected initially and Extension responded by updating a comprehensive drought response web page. Later in May and
June, there were major forest fires in the Boundary Waters Wilderness area of the state and the drought intensified throughout the remainder of the state. The MN-EDEN team continued to meet monthly, responding to requests and further developing the website.

In August 2006, the statewide drought was somewhat alleviated, but the bridge collapse in Minneapolis on highway I-35W created significant challenges for commuters and local businesses affected directly by the collapse. Individual programs were encouraged to contribute program resources related to the bridge disaster. Dr. John Shutske, EDEN POC for Minnesota had already been working with businesses in Minneapolis and with Minneapolis agencies on business continuity planning, and materials were disseminated via the city’s health department and through other units.

Also in August, a large flood event occurred in SE Minnesota causing major damage and loss of life. The MN-EDEN team continued to support response activities and coordinator Bob Byrnes spent several days in SE Minnesota supporting educational and information dissemination efforts. This work was widely recognized at the state level by various agencies. In addition, comments were made that the “ICS” training done for 30 local Extension Educators in late 2006 “paid off” as educators were able to find appropriate placement in the EOC’s that were set up to respond to this event. For additional web-based content, see: http://www.extension.umn.edu/projects/disaster/

In terms of educational programs, John Shutkske developed continuing education/graduate education course titled Business Continuity Planning for Disasters and Emergencies this summer was offered in Minneapolis/St. Paul and also in Bismarck, North Dakota. These courses were taught in a 16-hour workshop format. Participants worked with actual businesses to study their unique preparedness needs and develop and present an actual plan. The Minnesota session was held as part of the “Public Health Institute.” The industry site was a prominent, city-owned hospitality business. The site for the North Dakota course was a large, regional power supplier. Kathy Tweeten of NDSU Extension participated and discussed business needs and the EDEN Business Ready curriculum.

In addition, Shutske and Research Fellow Michele Schermann worked with the Minnesota Fruit and Vegetable Grower’s Association to do a comprehensive assessment of disaster-related needs and perceptions of growers in the state’s fruit and vegetable industry. This work led to the development and delivery of a comprehensive disaster and business continuity planning course. See: http://safety.cfans.umn.edu/ERPIQ/workbook.html

Submitted by: John Shutske

MISSOURI

UNIVERSITY OF MISSOURI

University of Missouri Extension Emergency Management Programming:
Missouri’s emergency management programming has two focuses within the state, it is comprised of efforts in cooperative extension through the community development program and through continuing education via the Fire and Rescue Training Institute. With this dual approach UME is able to provide a wide variety of educational services to the communities and citizens of Missouri.

• Course Development: Two faculty members participated in the development of two EDEN courses: Ready Business and Pandemic Influenza Preparedness for Faith-based Organizations.
• Exercise for MO Dept of Ag.: Developed and conducted an exercise for the new leadership at the
Missouri Department of Agriculture. Scenario was Avian Influenza

- Exercises for Local Governments: Developed and conducted three large local exercises for local public health agencies on pandemic flu.
- Consulting with MO Dept of Ag.: Currently reviewing Missouri Department of Agriculture plans. They have several different plans for different events. The plan review is to evaluate commonalities and differences and to provide recommendations on continuity and coordination.
- Needs Assessment for Mo Dept of Ag.: Currently conducting needs assessment for MDA to make recommendations on a comprehensive multi-year exercise program for the dept.
- Internal Program Review: An internal review of Extension’s Community Emergency Management Program was conducted to determine the efficacy of the programming. An expansion of this study is scheduled for 2007 – 2008 to determine impact beyond extension.
- University Missouri Campus Exercise: The emergency management specialist was asked to develop a functional exercise for the leadership of the main system campus located in Columbia. The scenario chosen in early January was an “active shooter” loose on campus. The exercise was conducted, as scheduled on April 17th, the day after the Virginia Tech shootings.
- New Agricultural Preparedness Position: Through regional homeland security funding, MU Extension was asked to hire an Agriculture Preparedness Specialist for up to two years to assist the southwest area of Missouri to heighten awareness and preparedness for potential agriculture emergencies. The position has been filled and they are actively engaged in preparedness activities throughout the SW region.
- 4H Geospatial efforts: MU Extension is currently in negotiations with Missouri’s SEMA and the American Red Cross to expand the shelter mapping initiative across MO and into other states.

Submitted by: Eric Evans

MONTANA

MONTANA STATE UNIVERSITY

Model Community Award: In October 2007, Chouteau County Montana (home of EDEN delegate [county agent AND Disaster Emergency Coordinator] Linda Williams) received the National Emergency Services Award “For establishing and implementing effective strategies that enhance collaboration and strengthen the relationship between public health and emergency care, thereby serving as an example to other communities to promote the improvement of daily operations and disaster preparedness nationwide.” Chouteau County is the only rural community in the nation to ever receive the award.

Three from Montana (Vogel, Williams and Ron Carlstrom) attended the regional Animal Agro-Security conference in New Mexico. It was an excellent conference.

Completion of FEMA grant with the Montana Board of Regents to develop Emergency Preparedness Plans for eight campuses of the Montana University System. Comprehensive plans were developed and approved during 2006-2007 by FEMA.

Enhancement of Montana EDEN website www.montanahelp.org to improve user navigation to critical disaster preparedness topics and link to all county emergency response contacts.

With Montana Governor Brian Schweitzer developed three 30-second drought/water conservation
television and radio public service announcements. The PSA topics deal with home water conservation, yard and garden water conservation tips and wildfire protection of forested properties.

Reprint and distribution of A Citizen’s Guide to Basic Evacuation Procedures. This publication provides the property owner a family disaster plan as well as an “All Occupants Have Evacuated” door hanger to list names and contact information of evacuated persons for emergency responders. During the Montana 2007 wildfire season over 10,000 of the publication were requested and used by Emergency Response agencies.

With the Montana Department Public Health and Human Services (which regulates all child-care facilities in MT), create Day-Care Disaster Preparedness training program for 2008. The model of the Montana training is the Emergency Response Planning for Child Care Providers/Montgomery Co., MD.

After the Fire: A Landowner’s Guide to Programs and Services for Assistance in Montana. The publication of the Montana Department of Natural Resources and Conservation – Forestry Division featured the services of Montana State University Extension.

Faith-based work utilizing the EDEN Pandemic Preparedness for Faith Based Organizations course.

Hire of Tommy Bass (.25 FTE) to coordinate EDEN ag-emergency/security efforts.

Development of The Montana Plant Biosecurity Risk-Awareness Guide (operation folder)


Submitted by: Dr. Michael P. Vogel

NEW JERSEY

RUTGERS UNIVERSITY

General Preparation for Disaster Response

A procedural manual has been developed to help ensure the safety of students, faculty and staff. The manual includes information on the following:

• emergency preparedness prior to an emergency
• obtaining university emergency information
• reporting an emergency
• what to do if you detect a fire/smoke condition or receive a bomb threat
• bomb threat call checklist
• sheltering in place (in cases of situations such as a hazardous materials release, major storm, terrorism incident, etc.)
• personal workplace disaster supplies
• phone numbers for Police or Emergency Response
• building evacuation route(s)

RCE Emergency Response Communications Tree
In collaboration with the NJ Secretary of Agriculture, RCE has established a call-tree in case of an emergency to reach out to RCE County Offices, the Off-Campus Research Centers, Cook Campus Animal Care Facility and Horticultural Farms, and Extension Specialists. Periodic tests are completed to insure the readiness of the system through a variety of methods (email distribution list, cell phone, and fax) during different times of the day using various scenarios.

Participation in TOPOFF Exercises
RCE has participated in a TOPOFF exercise held April 4-8, 2005, by which a test was conducted of the RCE Emergency Response Communications Tree. The TOPOFF exercise provided an opportunity for federal, state, and local agencies and jurisdictions to exercise a coordinated response to a large-scale terrorist attack. It aimed to test both plans and skills and provide information to participants and observers about the preparedness and response plans. The New Jersey part of the exercise involved a simulated biological attack in Union and Middlesex Counties involving a vehicle-based biological agent.

RCE Flood Disaster Response
The State of New Jersey is bordered on the east by the Atlantic Ocean and the western border is largely defined by the Delaware River. In addition to these two large bodies of water, the state has many streams and rivers; therefore, the slightest above average rainfall causes frequent flooding. In fact, many parts of Northern New Jersey are part of a flood plain. Above average rainfall causes streams to overflow, dams to break, and soils to erode. Because of flooding which has resulted in property destruction, crop loss, and a myriad of personal losses, the state at times has been declared a federal disaster. Rutgers Cooperative Extension's response to flooding includes the following:

• Provide information through fact sheets, CD ROMS, posters, magnets and the Internet through the county Extension offices and a mobile education unit. (A mobile education van is located at various sites in flood-affected areas to address needs of residents affected by flooding and provides water testing kits, collects mold samples and provides posters for display.)
• Provide personal and financial counseling.

Joining forces with the Consumer Credit Counseling Service of New Jersey by providing counseling sessions in a county office or by telephone during select hours. Financial counseling sessions are available in areas such as debt management, insurance concerns, applying and managing loans, etc. Sessions are promoted by using the above media, the mobile education van, as well as the Internet.

• Evaluation of crop disease and crop quality losses and recommendation of solutions.
• Water sampling and structural mold testing.

Distribution of PurTest home water test kits to residents for home testing of well water that may have been compromised as a result of flooding allows residents to test water for the presence of bacteria, nitrates and nitrites. Kits include a list of certified water testing laboratories so that if high levels of bacteria, nitrates and/or nitrites are found the appropriate action can be taken.

Residents of county provide samples of structural molds for testing and removal advice. Samples are
tested by the RCE Plant Diagnostic Lab; reports are mailed to residents with cleaning and removal advice, and if necessary a list of state certified agencies to help with further cleanup and/or removal.

- Testing for mycotoxins and molds in crops and water soaked structures.

RCE educates and creates cultural changes in practice on farms in affecting counties. With the ability to test forages for mycotoxins and livestock water for coliforms, individual farms, with the help from RCE, the agriculture industry has been able to create new procedures to treat and correct contamination.

- Provide mid to long term assistance not provided by flood relief teams.
- Make recommendations to the community for future preparedness.

Submitted by: Mary Jane Willis

NEW MEXICO

NEW MEXICO STATE UNIVERSITY

New Mexico hosted one of the EDEN Animal Agrosecurity Conferences in Las Cruces April 3-4, 2007. Representatives from twelve states attended the conference designed to discuss Extension’s role in emergency efforts relative to especially livestock incidents.

The conference was attended by approximately 200 people from Extension throughout the Western US as well as personnel from our sister state and federal agencies interested in disaster or emergency efforts. The conference was funded by a $25,000 EDEN contract and the use of approximately $35,000 in state homeland security contract funds.

EDEN contacts in the various states participated in several conference calls to plan the agenda and speakers. Out of state participants received financial assistance with meals and hotel expenses.

On December 22, 2006, a moderate blizzard struck Northeastern New Mexico involving agricultural producers in two counties. This storm also struck in Southeastern Colorado and the Oklahoma panhandle. The brunt of the storm was located in Southeastern Colorado and Oklahoma with over 5 ft. of snow falling with 60-80 mph winds resulting in 20 ft. drifts and all roads impassable. Northeastern New Mexico only received 2 ft. of snow with the same wind velocities causing 3 to 5 foot drifts and partial road closures. The snow fall lasted about 28 hours with 4 days of blizzard conditions. This incident was handled as an ERL-1 level where the agriculture responders requested assistance from the EMT’s and the County road department.

This storm was then followed on December 31, 2006 with another major snow activity where Northeastern New Mexico, Southeastern Colorado and the Oklahoma panhandle, with Union and Colfax counties in Northeastern New Mexico receiving the brunt of the storm with over 5 ft. of snow falling with winds up to 80 mph. The snow fall lasted through January 2, 2007 with the winds lasting through January 3, 2007. This resulted in a major disaster, with the December 22, 2006 snow still on the ground, and resulted in the Union County Disaster plan to be increased to an ERL-2 where the State of New Mexico became involved.
Assistance was received from the New Mexico Livestock Board, New Mexico State Highway Department, and the New Mexico Department of Agriculture with the emergency assistance from 3 other counties. The EMT’s were in tremendous demand as was all the health community. Agencies including Extension aided in getting a state emergency declared making available military helicopters for search and rescue, medical emergencies and emergency hay lifts to stranded livestock. The county extension agents coordinated livestock rescue efforts. The traveling public was affected with stranded motorists and full motel accommodations requiring local churches, schools, and public buildings to be used for shelter.

The agriculture industry in Union and Colfax Counties in New Mexico suffered economically with 75 producers losing livestock. Feed shortages, shortages of fuel, ruined equipment, and additional feed requirements added to the total. The total loss in livestock, calculated in March 2007 totaled 3,000 head on rangeland and 2,700 head in the 3 major feedlots in the area. The feedlot cattle died from smothering during the storm as well as pneumonia and respiratory distress following the event. The range livestock also died from smothering, respiratory distress as well as starvation from lack of feed and water. Calves born during the blizzard were a 100% death loss and abortion was up to 20% in some breeding herds. Stocker cattle on range seemed to fair the best with only 267 head dead. The vast herds of wildlife, (deer, elk, pronghorn antelope), were also affected with many dead and the birth rate in late spring only 75% of normal.

Submitted by: Billy Dictson

NEW YORK

CORNELL UNIVERSITY

NY EDEN, through Cornell Cooperative Extension (CCE) has been involved in the following disaster preparedness and recovery activities during 2007.

Extension Preparedness:

To be more effective during a disaster, Extension staff need to know that their families are safe and be aware of the status of their personal property. To assist in personal preparedness, NY EDEN conducted three Association staff workshops and one regional train-the-trainer workshop focusing on the four steps involved in individual and family preparedness. County Extension Associations are now required to have business continuity plans and NY EDEN assists with this through consultation and workshops. At the request of Extension Association Executive Directors, an Extension Disaster Resources CD was developed and distributed to participants (350+) at a CCE system-wide conference in October, 2007.

Natural Disasters:

Resources were provided for Extension staff to assist citizens affected by three weather-related disasters during the year: a major lake-effect snow storm in central New York, a Nor'easter in the southeast region resulting in flooding and a flash-flood in a county that was still recovering from major flooding which occurred in June, 2006. In each instance, emergency management had requested assistance from the county Extension Association which indicates that Extension in New York is considered a valuable partner in addressing disaster recovery. In September, Extension staff also assisted state emergency management by identifying farms that were in need of water during a drought emergency.

Agricultural Preparedness:
Using the EDEN-developed materials, a presentation on Plant Biosecurity Management was provided to 150 Long Island growers in January. NY EDEN continues to be actively involved in SART. Six regional workshops focusing on animals in emergencies were conducted during the Spring with over 400 participants. NY EDEN was also a member of the Temporary Emergency Animal Shelter Task Force and assisted in developing a policy statement to help Extension staff define their roles with CARTs. NY EDEN was part of the planning team for the Northeast Regional Animal Agro-security Conference that was held in Pennsylvania in March. New York sent four delegates to this conference, but we continue to be challenged to move agro-security to a priority issue with Extension agricultural staff. Cornell is a partner in the recently funded CSREES Special Needs project that will assist in the development of commodity specific disaster preparedness materials.

**Youth:**
NY EDEN partnered with the Red Cross on two occasions to promote the “Masters of Disasters” curriculum: (1) at a 4-H After-school program in-service (2) demonstrated hands-on activities during a 4-H teen leadership retreat. This resulted in three county 4-H exhibits at the NYS Fair providing preparedness activities and materials to hundreds of visitors during the 12-day event.

Submitted by: Ellen Abend

**NORTH DAKOTA**

**NORTH DAKOTA STATE UNIVERSITY**

**Revamped Web Site**
NDSU Emergency Management Graduate Student Kent Theurer totally reworked the NDSU Extension Service disaster Web pages. Now at www.ag.ndsu.edu/disaster, people can see information by disaster (drought, flood, winter storm or general disaster) or by end user (home, family, farm and ranch, or business). In addition, an Especially for Extension Educators section features an emergency management overview, and lesson plans and online training on home moisture and air quality, family preparedness plans, home disaster supply kits, livestock biosecurity, plant biosecurity and farmstead security. Links are provided to all EDEN courses.

**eXtension**
NDSU faculty are providing leadership on EDEN’s two Pioneer Communities of Practice. Charlie Stoltenow leads the agrosecurity team and Ken Hellevang the flood team.

The agrosecurity team continues to gather and edit material. Recruitment of additional subject matter specialists for the agrosecurity Community of Practice is being planned.

The flood team has developed material including FAQs on Protect Your Property from Imminent Flooding, Clean-up and Recovery After a Flood, Reduce Future Flood Damage and Financial Risk Management Related to Floods.

Ken is providing leadership for phase two, which is to continue development of flood preparedness and recovery information on residential topics and to add fact sheets and FAQs related to horticultural and agricultural topics.
Ready Business
The NDSU Extension Service received $18,000 in CSREES Special Needs funds to add audio and video enhancements to EDEN’s Ready Business course for national use. In addition, NDSU Extension is hoping to partner with another agency or organization to hire an Extension educator for one year to train business owners in small and medium-sized communities across the state and across the country on how to develop their disaster plans.

Regional Animal Agrosecurity Conference
NDSU will host an EDEN regional animal agrosecurity conference June 4-6, 2008, in Fargo. This conference will focus on issues involving an animal agrosecurity incident involving an international border. Planning discussions in groups involving Extension educators, producers, commodity and industry representatives, government officials, university experts and others are being conducted. Planning sessions with Canadian collaborators also have been held. International involvement is expected from collaborators and stakeholders.

North Dakota Emergency Operations Plan and Lignite Wind Exercise
Kathy Tweeten has worked with the Department of Emergency Services to include the NDSU Extension Service appropriately in the Economic Maintenance and Recovery Annex of the North Dakota State Emergency Operations Plan.

Charlie Stoltenow and Becky Koch took part in the statewide Lignite Wind tabletop and functional exercises. Charlie hosted the N.D. National Guard civilian liaison and veterinarians from Ghana, including the chief military veterinarian and chief civilian veterinarian of Ghana, during the functional exercise. Becky also took part in the July Summer Storm animal agriculture functional exercise.

NDSU Pandemic Planning
The Extension Service is represented on the NDSU Pandemic Planning committee and is tasked to develop plan templates for off-campus offices.

NDSU Emergency Management Academic Program
The Extension Service cooperates with the academic program staff and students in providing guest speakers and support.

Submitted by: Becky Koch

OHIO

THE OHIO STATE UNIVERSITY

Weather-Related Emergency Response
Ohio was impacted by several large-scale weather emergencies in different areas of the state. Heavy snow in December 06/January 07 actually closed the main campus of OSU for 1.5 days. Severe drought affected rural water systems and household wells, along with agricultural production in summer and fall months. Still other counties experienced flash flooding, with heavy contamination of dug wells and gray water reservoirs. During these times of natural disaster, county Extension offices served Ohio citizens with weather specific information for the emergency they faced. Field staff distributed emergency planning and cleanup information via radio programs, individual phone calls, and fact sheet materials
given out at the local disaster center with Red Cross cleaning kits. Many Ohio Extension Educators serve on their Local Emergency Planning Commissions (LEPC) and are able to provide timely information in a diverse network of distribution patterns.

Specifically for drought affected livestock producers, a series of workshops were conducted by OSUE Educators around the state. Topics included forage management, assistance with herd culling, and roughage replacement/economical feed solutions. Several printed articles were published in commodity journals and newsletters with similar information.

Several county Extension offices experienced disasters first hand. As one case example, Putnam county encountered what they called the 100-year flood. It resulted in almost 30 inches of water in the Extension office and 900 homes damaged in Ottawa, Ohio. While under a Level 3 emergency, Extension staff used boats and tractors with loaders to move the computers and other usable equipment to a temporary office on the fairgrounds, where they remained for nearly 6 weeks. However, they were operational with phones and internet within 3 business days following the flood. The Extension staff received lots of assistance from area farmers donating wagons to transport and store office filing cabinets and supplies; power washers to clean salvageable office equipment; 4-H members helping with clean up and refurbishing the flooded office; county garage employees hauling items to the landfill; surrounding Extension offices donating desks and filing cabinets; and local funeral homes providing used phone systems. The community came together in support of their local Extension office, and worked hard to get them functional. After the event, the county commissioners recognized the office staff’s quick reaction to sandbag the building and relocate as many items as possible to higher ground during the rising waters; an action that other agency offices did not consider.

Avian Influenza Interagency Workgroup
OSU Extension participated in (2) tabletop exercises with Ohio Department of Agriculture, Ohio State Patrol, State Veterinarians, and commodity groups to demonstrate response abilities to a low path Avian influenza outbreak. This multi-state exercise demonstrated two scenarios. One tabletop had Ohio as the impacted state of emergency and allowed us to demonstrate our initial outbreak procedures. While the second tabletop had Ohio as a surrounding state, allowing us to demonstrate our secondary response actions.

Radiation Response at Commercial Nuclear Power Plants
OSU Extension is a full member to the Ohio’s Emergency Management Agency (EMA) Response Plan for nuclear power plants, of which Ohio is impacted by three sites. Besides standard annual meetings with plant operation managers and EMA personnel, OSUE personnel at state and local levels participated in a 2007 graded FEMA exercise for the Davis Besse plant.

University Crisis Team
OSU Extension played a key role in facilitating a university campus tabletop exercise for faculty and staff in the College of Agriculture for emergency response planning. The one-day tabletop used the morning session to pose a Pandemic Flu scenario for departments to provide discussion and role-play responses. The afternoon session was dedicated to developing department emergency action plans, complete with staff call-trees and other response protocols. This successful program will be presented to county and regional offices in the up-coming year in an effort to communicate business continuity plans.

The OSU Crisis Management Team consists of representatives from the college office, university public safety office, university IT services, communication and technology, branch campuses and research
stations, and the OSU Extension safety group. The team has been operational for one year, and is making great strides in campus disaster planning. It is supported by the college Dean and has received Smith-Lever Special Needs Funding for FY07/08.

Other Activities:
Agri-security and Natural Disaster Planning presentations were developed for Extension field staff to present to their clients. The Power Point presentations were taught around the state to agricultural businesses and producers.

As a part of their 4-H camp counselor orientation, over 2,000 4-H teens received emergency/disaster planning training to prepare them for emergency situations they could potentially face as 4-H camp counselors.

Several county 4-H committees and fair boards reviewed their emergency plans in the event severe weather was a factor during their county fair. This was a result from 2006 where a string of tornados and severe summer storms unexpectedly called for rapid sheltering and evacuation of public grounds.

The EDEN website is regularly shared with Extension field staff during times of disaster. Many staff recognize the value of this information and are increasing their use in accessing it.

Submitted by: Dee Jepsen

OREGON

OREGON STATE UNIVERSITY

Oregon State University, upon hiring of a new Extension Veterinarian, is a member of the Oregon Veterinary Emergency Response Team (OVERT). This is an effort of the Oregon Department of Agriculture (ODA), Division of Animal Health and Identification (AHID), in conjunction with the USDA. They have developed a plan of action for response to animal disease emergencies or animal disasters called the Oregon Animal Health Emergency Management Plan and it encompasses response to foreign animal disease outbreaks and animal disasters. An important component is the voluntary participation of veterinarians, and animal health technicians who would be willing to serve as members of the Oregon Veterinary Emergency Response Team (OVERT). Over 120 Oregon veterinarians and animal health technicians are currently members of OVERT. The goal is 150.

In the event of an emergency, OSU Extension will fill secondary and tertiary roles under the direction of Oregon Department of Agriculture including:

- Disseminate information and status updates
- Testing
- Euthanasia and carcass disposal
- Traffic control
- Participate in OVERT training
- Participate in animal security planning group

The USDA Risk Management Agency provided funding for the Center for Food Security and Public Health (CFSPH) to develop materials to increase awareness of the ways diseases can enter and spread
within beef or dairy facilities. These educational materials were delivered to 87 Extension Specialists from 41 states in a national Train the Trainer session in July 2006 in conjunction with the American Society of Animal Science/American Dairy Science Association’s Annual Meeting. The extension specialists are now using the tools to train other educators in their state and to work directly with producers to enhance biological risk management.

More information: Chuck Estill (charles.estill@oregonstate.edu)

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The education about catastrophic hazards on the coast includes preparation for earthquakes and tsunamis. The program seeks to develop a high level of preparedness by residents, visitors, business, governments, schools, and neighborhoods in order to improve survival of a large local event and manage confusion from a distant event. Current activity includes participation in a film documentary called “Cascadia’s Fault” produced by Storylines Productions of British Columbia. It is being produced with focus on Astoria, OR and Uclulet, BC. It will be aired in early 2008. The Emergency Preparedness Team meetings for Seaside and Clatsop County include an OSU Extension member who updates the group about tsunami research at OSU. OSU has a world known wave research laboratory. We are working toward a Governor’s declaration of January 26th as the commemoration day for the last Cascadia Subduction Zone (9.0) earthquake which occurred 9:00 pm January 26, 1700.

More information: Pat Corcoran (patrick.cocoran@oregonstate.edu)

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OSU Extension 4-H has a grant with the National Geographic Society where lesson plan/curriculum writing and five national emergency preparedness trainings will be conducted. The focus is to train youth and adult teams from hurricane prone counties on GPS/GIS technology’s use for emergency preparation. In Oregon this project is connected to the 4-H Teen Community Emergency Response Teams (CERT). Teen CERT includes skill training required by Homeland Security, career exploration, development of leadership and communication skills, and service learning projects. Students have participated in mock exercises of an air plane crash and an earthquake. They have learned to use GPS and GIS and developed maps for water sources in the event of a wildland fire.

More information: Lynette Black (lynette.black@oregonstate.edu)

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OSU’s Plant Clinic is one of three resource laboratories designated for the western region. The main contribution from this national laboratory network is surveillance of deliberately introduced epidemics and a reporting system that is integrated nationally for rapid response. Western agriculture provides the United States with much of its food, including large-scale commodity crops such as wheat and potatoes and hundreds of specialty crops from pineapples to hazelnuts. It is also a region with large population centers and big international ports where food is shipped around the world. Now with new tools in the lab, they will be looking for a few very specific pathogens, those that do not occur naturally and can cause devastating diseases to food crops. These may be foreign diseases for which the main food crops have no immunity or particularly virulent strains that can spread rapidly through the food supply. Molecular tests will be developed/used to rapidly identify some of the most potentially destructive plant pathogens. Growers are being educated to be alert to particular symptoms they might see in the field or orchard.

This year 10 dissecting microscopes with attached cameras will be provided to selected counties. The
scopes include digital cameras which will enhance the chances for early detection. In addition Oregon has early detection plots for soybean rust, soybean aphid, and plant viruses. Plots are at eight sites across the state.

More information: putnamm@science.oregonstate.edu

Submitted by: Bill Braunworth

**PENNSYLVANIA**

**PENNSYLVANIA STATE UNIVERSITY**

- Penn State and the University of Maryland hosted the Northeast & Mid-Atlantic EDEN Regional Animal Agrosecurity Conference, March 2007. States represented were: Connecticut, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, Vermont, and Virginia. Group decided to consider regional project opportunities.
- Pennsylvania Extension Educators participated in annual in-service / role of Extension in disaster education, and EDEN resources and learning opportunities.
- Pennsylvania EDEN exhibit using EDEN resources (developed state specific exhibit using EDEN resources)
- Pennsylvania EDEN exhibit and “go-bag” instructions exhibited at Penn State’s Agricultural Progress Days event.
- Penn State Extension identified as state partner for preparedness month. State-wide news articles and radio spots complement county-based activities.
- Pennsylvania EDEN exhibit displayed at multiple county fairs. “Go-bag” instructions were distributed at the exhibits.
- Pennsylvania Department of Agriculture recognized a presentation on “Agricultural Security: It’s Your Business” for pesticide training credits.
- Penn State University Coordinating Council on Homeland Security recognized EDEN and EDEN resources in a promotional brochure.
- Developed an Agriculture and Safety Committee in a regional counter-terrorism task force.
- Penn state received a CSREES grant to develop agriculture commodity continuity of operations and disasters plans for dairy, fruit, poultry, vegetable, and swine. Cornell, Maryland, Rutgers, and University of Vermont are partners with Penn State.
- Finalizing the eXtension Pioneer Community of Practice (CoP) in agrosecurity and flooding.
- Represented EDEN at land-grant showcase at Capitol Hill – AAAS Congressional Briefing, and provided testimony to U. S. House of Representatives, Committee on Homeland Security, Field Hearing
- Developing web-based disaster education training modules for Pennsylvania Extension Educators.

Submitted by: Dave Filson
Clemson University Cooperative Extension Service, CUCES, continued to participate in Emergency Preparedness activities in 2006-2007. CU received DHS funds to train extension agents and other state agencies in various aspects related to agroterrorism and all-hazard preparedness. As the 1862 Land Grant Institution, CU has legal jurisdiction for Livestock and Poultry Health- CULPH, and has Pesticide Regulatory authority in the state. Extension agents assist the Emergency Management Division, EMD, by staffing ESF-17 during activation for hurricanes and other emergencies and exercises. Agents assist in organizing the local County Agriculture Response Team’s – CART’s and serve on the local planning committees. A strong emphasis is placed with livestock producers to participate in the National Animal Identification System – NAIS, and most producers have participated in premise identification. Educational days have been conducted for livestock producers on biosecurity and the risks of Foreign Animal Diseases, FAD’s, to the livestock industry.

Extension agents serve on the Low Path Avian Influenza strike teams that were organized and trained in biosecurity and poultry sampling to assist CULPH should an AI outbreak take place. SC Ag-Watch - Biosecurity and FAD training for CUCES agents and other responders was conducted. SC experienced an outbreak of a vacccinal strain of Infectious Laryngotracheitis in poultry and county agents assisted with information exchange to producers related to this heightened biosecurity level. CUCES participated in discussions to organize disaster companion animal shelters to be set up during evacuations. Ext. agents participated in the Statewide Full-Scale Emergency Management Exercise. Training was conducted for NAIS updates as well as a CDC Grant for Avian Influenza Rapid Response led by SC-DHEC, CULPH, and USC Public Health Preparedness. A Plant Pest Tabletop Exercise was conducted by CUs Regulatory and Public Service Programs Division. The primary purpose was to test the Incident Command System (ICS) and response capabilities of RPSP staff. The scenario involved a plant pest with inserts involving public health and pesticide misuse. Over 50 people from seven state agencies participated. ICS was used in the Weed Survey. CU’s Dept. of Plant Industry received USDA, APHIS, PPQ funding to survey for Commelina benghalensis, also known as Benghal dayflower and Tropical Spiderwort, in counties along the South Carolina and Georgia border. This Roundup-resistant weed was found in Roundup Ready cotton and soybean fields in Georgia, but has not yet been detected in SC. The survey will be held in October, 2007, and will involve 10 teams composed of DPI and PPQ personnel. The ICS will be employed. The survey will also exercise equipment purchased for the State Plant Response Team with DHS State Homeland Security Programs (SHSP) grant funds. The equipment includes a mobile command center and laboratory that will serve as the Incident Command Post for the survey.

Funding for the “SC Ag-Watch” project has been applied for through a DHS-State Homeland Security Programs (SHSP) grant. SC Ag-Watch is a collaborative effort between the Clemson U. Coop. Ext. Service, Clemson U. Regulatory and Public Service Programs, Clemson U. Livestock & Poultry Health, and the SC Dept. of Agriculture and will provide education and training on protecting our food supply. The program will be delivered to growers, producers, and food processors. Information on facility site security, biosecurity of exotic plant pests and foreign animal disease, and other issues will be offered through face-to-face instruction, production of a handbook, and site certification. A state-wide, multi-agency functional exercise will also be conducted with a scenario relating to food safety. Dr. Deborah J. Thomason is working with a USDA grant to develop the EDEN disaster materials suited
for the Aging Population and will be presented at the EDEN meeting. She will also present Building Family Strengths in times of Crisis and works with eXtension – community of practice on disasters fact sheets. In addition to providing resources to the EDEN website, Clemson University has an emergency preparedness and response website http://www.clemson.edu/ep/ under our PSA link.

Submitted by: Howard van Dijk, PhD

SOUTH CAROLINA SEA GRANT CONSORTIUM

Introduction/Background
In 2007, the South Carolina Sea Grant Extension Program (SCSGEP) rejoined EDEN as an institutional program. Previously, beginning in the year of the EDEN Annual Meeting in Baton Rouge, the SCSGEP had been represented in EDEN by Bob Bacon and later by Elizabeth Judge, the SCSGEP Coastal Hazards Specialist. Beth resigned from the program in 2003 for marriage and a family in Raleigh, NC, where she now works for an engineering consulting firm.

Bob Bacon, SCSGEP Leader, currently manages the SCSGEP hazards program, is the SCSGEP POC, and serves as liaison for the national SG Extension network to EDEN.

Current SCSGEP Hazards Staffing
In previous years, the SCSGEP focus in hazards was related to engineering solutions to hazards impacts on non-engineered residential and commercial structures, e.g. structural design and retrofit. In the past two years, the focus of the program has shifted as an adaptation to evolving program needs and funding availability. In 2006, the SCSGEP hired a Coastal Processes specialist to work with coastal managers, regulators and the public on issues including beach erosion, rip currents and beach nourishment. In 2007, the SCSGEP, in partnership with North Carolina Sea Grant and the Carolinas Integrated Sciences and Applications program, hired a Coastal Climate specialist to work on issues related to the impact of climate, climate change and global warming (including sea level rise) as they affect, or may affect, coastal areas of North and South Carolina. Examples of program activity in these areas in 2007 includes: a Rip Current Awareness & Safety Workshop and public awareness program; a Beach Nourishment Workshop; applied research in monitoring beach sand profiles, volumes and movements for the states coastal management program; and the initiation of regional and national Sea Grant coastal climate extension networks.

113 Calhoun Street Project
Without a full-time hazards specialist focusing on structural mitigation, the 113 Calhoun Street project has limped along at a greatly reduced level of activity, but has survived. In 2006, the SCSGEP attempted to reinvigorate the project with a series of visioning workshops intended to stimulate new interest and redefine the structural mitigation focus of the program. As a result of the visioning process, the Foundation Board embraced a broader community-wide focus on hazards resilience. This led, in 2007, to a Memorandum of Understanding with Charleston Area Project Impact, for program development and delivery; a revision of the foundation’s By-laws, an expansion of the Board of Directors, the creation of a new committee structure; and the initiation limited program efforts, including

- a stormwater management demonstration featuring a new landscape design using extensive permeable paving to create more usable exterior space for events and parking, while minimizing the amount of stormwater released from the property to city streets;
• the overhaul the 113 Calhoun web site to reflect its new mission, Board, and program focus; and
• resumption of site tours and group events in at the building.

Also in 2007, the SC Sea Grant Consortium submitted a funding request to the state legislature for one FTE for a coastal hazards specialist, and funding to support the operation and maintenance of the building. The legislature passed the request, however the governor vetoed the FTE.

**Coastal and Inland Flood Observation and Warning (CIFLOW) Project**
The CIFLOW (Coastal, Inland FLooding Observation and Warning) Project, was conceived to leverage the technical capability of the National Severe Storm Laboratory with the outreach capability of Sea Grant. The goal of CI-FLOW is to establish a research and demonstration program for the evaluation and testing of new remote sensing technologies and multi-sensor techniques to identify inland and coastal floods and flash floods higher spatial and temporal resolution than is currently available.

The North and South Carolina Sea Grant programs, National Severe Storms Laboratory (NSSL), National Sea Grant (NSG) College Program, University of Oklahoma (OU), North Carolina State University (NCSU), and National Weather Service’s Office of Hydrologic Development (OHD) participate in a joint project centered in North Carolina areas affected by Hurricane Floyd. The primary demonstration area is the Tar-Pamlico River basin.

In 2007, a national Sea Grant Extension Weather/Climate specialist was hired at the University of Oklahoma to work with the NSSL and the Carolinas Sea Grant programs to develop CIFLOW-based decision support tools, including GIS and web-based mapping products with potential users in the emergency management and planning arenas. On the research side, the NCSU CI-FLOW team is working with OHD and NSSL to demonstrate the utility of using NSSL real-time precipitation products, called Q2, and a OHD hydrologic model in watershed, estuarine, storm surge, and water quality modeling. Details on CI-FLOW can be found at [http://www.nssl.noaa.gov/wrd/wish/iflow/](http://www.nssl.noaa.gov/wrd/wish/iflow/)

**South Eastern Atlantic Coastal Ocean Observing System (SEACOOS)**
SEACOOS is a five-year program funded by the Office of Naval Research to establish a regional coastal ocean observing network from Florida to North Carolina using primarily ocean data buoys and modeling to gather, archive and distribute physical oceanographic data to existing and new users of that data. Sea Grant programs in the region were engaged in this effort to assist in identifying new users and stakeholders, and to begin piloting extension programs on ocean observing, and ocean observing applications. As a part of that effort in 2007 the SCSGEP collaborated with scientists at the University of south Carolina and the Skidaway Oceanographic Institute in Georgia on an HF Radar Workshop for users in the Beaufort/Hilton Head Island area in South Carolina. HF Radar is a shore-based technology that uses radar to scan the wave tops to image the ocean surface and detect patterns of circulation. This technology may be useful in applications including search and rescue and oil spill tracking. Workshop attendees included the U.S. Coast Guard personnel, local Power Squadron members, and representative of the SC Department of Natural Resources.

Also in 2007, the SCSGEP worked with SEACOOS and investigators from University of North Carolina Wilmington, on a project called “Carolinas Coast”, which employs ocean data buoy information to supplement National Weather Service forecast information in a single Marine forecast web page on the Wilmington WFO web site. This product is in the process of being formally adopted by the NWS Eastern Region for use in all its coastal weather forecast offices.
RiskWise Community Resilience Network
The RiskWise Community Resilience Network is an initiative of Sandy Eslinger (former SCSGEP Coastal Hazards specialist) at the NOAA Coastal Services Center. The SCSGEP is a core partner in this initiative. Its aims are to increase resilience by educating community leaders & public officials on the linkages between disaster resilience and risk-wise policy, and providing targeted information & resources for use in pursuing resilience.

As a part of the RiskWise initiative in 2007, the 113 Calhoun Street Foundation, the South Carolina Sea Grant Consortium, and the NOAA Coastal Services Center held a workshop to identify collaborative approaches to planning for natural and manmade hazards that face coastal communities. This workshop brought together coastal managers, emergency managers, floodplain managers, and local planners to gain a greater understanding of each other’s fields and to begin to leverage their respective efforts to mitigate impacts of hazards and foster coastal community resilience. This workshop will be duplicated in other communities and the results used collectively to guide the development of community-based products including a “Resiliency Index Community Self Assessment” tool, a risk calculator, and community leader training.

SG Hazards Theme Team
The national Sea Grant network has established cross-cutting, interdisciplinary theme teams to address issues of broad, national interest. Among those is the Sea Grant Hazards Theme Team. The SCSGEP has served a coordinating function for that group, establishing a listserv through the National Sea Grant Office, creating a website www.haznet.org, and facilitating national Sea Grant program activity in coastal hazards. For example, in 2007, working with colleagues in Hawaii Sea Grant, the SCSGEP has helped organize and fund a special Sea Grant session for the NOAA/ASCE co-sponsored 2008 “Solutions to Coastal Disasters Conference. Five examples of outstanding Sea Grant Extension work from Puerto Rico, Wisconsin, Louisiana, Massachusetts, and Hawaii were selected on the basis of their contribution to finding solutions to problems associated with coastal disasters ranging from hurricanes to tsunami.

Submitted by: Bob Bacon

SOUTH DAKOTA
SOUTH DAKOTA STATE UNIVERSITY
The South Dakota State University Extension Service has been involved in a number of disaster and preparedness activities in 2007:

- West Nile Virus – SDSU in conjunction with the South Dakota Department of Health and South Dakota Department of Agriculture hosted a statewide West Nile/Mosquito Control Web Conference. Extension and research faculty collaborated on mosquito collections in an effort to determine the risk factors for the West Nile Virus. Culex Tarsalis continues to be the main vector for transmission of the disease in South Dakota -- http://sdces.sdstate.edu/westnile/. Research done to date has shown our peak risk time is from mid-July through the end of August. Though our case numbers were not as high as in previous years, more people were hospitalized and the median age was lower for people diagnosed with the disease. We continued to distribute our WNV educational materials and produced several new PSAs for radio and television.
- The SDSU Cooperative Extension Service responded to two weather
Appendix - Success Stories

• related disasters in 2006/2007 blizzards and floods. CES responded with timely information on the web -- http://sdces.sdstate.edu/drought/ and http://sdces.sdstate.edu/flood/. Via publications, public television and radio. Within hours of the incident command being established in response to severe flooding in the NE corner of the state, the Incident Commander had the EDEN flood resources and he has stated many times these resources proved to be invaluable and the rapid response from Extension was excellent. The EDEN Mold Issue Page has been a most useful resource and the most requested EDEN information this past year.

• The College of Agriculture and Biological Sciences Avian/Pandemic Flu committee comprised of SDSU extension and research faculty, poultry industry representatives, the South Dakota Animal Industry Board and South Dakota Game Fish and Parks continued to meet in 2006/2007. Specific activities:
  ◦ Maintain our website with current information -- http://sdces.sdstate.edu/avianflu/
  ◦ Reviewed publications to identify needed and current publications

• Participation in the SDSU campus Pandemic Flu preparation committee helping to develop the plan for the Extension Service and University. We’ve shared EDEN resources with staff.

• SDSU and SDSU CES participation in the Brookings County Pandemic

• Preparedness Planning Committee. Five partners, Brookings Health System, Brookings Emergency Management, City of Brookings, Brookings Red Cross and SDSU submitted a grant proposal to the South Dakota Department of Health for a Pandemic Planning grant. Monies were received and the plan for Brookings County completed June 2007. We did receive a second round of monies and will use these monies to focus on education of our various sectors, businesses, schools and faith-based organizations. The EDEN on-line courses will serve as our educational vehicles. We also developed “ARE YOU READY” which will be the second page of our county phone book to be distributed November 1, 2007.

• Using the EDEN website as a model a SDSU CES National Preparedness website was launched September 1, 2006 and maintained throughout the year – http://sdces.sdstate.edu/prepare/ This page is a major feature of our – “ARE YOU READY”

• In October of 2007 EDEN agrosecurity and other resources were shared

• with the South Dakota State Agroterrorism Working Group. The group is made up of representatives from the FBI, US States Attorney’s Office, and state agencies working on terrorism. In April 2008 the new agrosecurity course will be delivered at a statewide meeting.

Submitted by: E. Kim Cassel

TEXAS

TEXAS A & M UNIVERSITY

Texas Cooperative Extension (TCE) “officially” became a member of the State Emergency Management Council through an executive order by the governor on June 6, 2007 and has participated in statewide EM activities along with all member agencies since that time. Extension faculty have been called upon for solutions and have responded to recovery from hurricane Humberto, floods, tornadoes, and wildfires during 2007.

Hurricane Dean: TCE activated its State Operations Center (SOC) desk, Headquarters Operations Center (HOC), Severe Storms Incident Resource Team (IRT) and All Hazards IRT at SOC Emergency Level 1 (24/7) August 17-21, 2007 to support county and regional Extension faculty and numerous state
and federal agencies.

**HUREX:** TCE activated its SOC desk, HOC, Severe Storms IRT and All Hazards IRT to support county and regional Extension faculty and numerous state and federal agencies during the 6-day Texas Hurricane Exercise (HUREX) in June 2007. The exercise focused on evacuation and sheltering of special needs citizens. County Extension agents (CEA), county directors, district administrators, and regional program directors participated in District Disaster and county EOCs.

**Operation Palo Duro:** TCE activated its Headquarters Operations Center, Animal Issues IRT, and All Hazards IRT to support county and regional Extension faculty and numerous state and federal agencies during Operation Palo Duro Exercise in February. The exercise simulated a catastrophic outbreak of foot and mouth disease in four state area.

**EMSC:** TCE and PVAMU-CEP joint Emergency Management Steering Committee continues leadership of Texas Extension EM

Eight Incident Resource Teams (IRT) made of 133 Extension specialists are developing and posting educational resources for the public and Extension agents on the Texas EDEN web site.

Developed a template for IRTs to submit links and other information about resource materials with a data base system to support the search.

**EM 101:** Two on-line courses developed and posted for new employees to learn about TCE’s role and agent expectations in Emergency Management. Required completion by all new agents.

**AIC:** Local CEA-Ag have worked with local Emergency Management Coordinators/County Judges to facilitate the development of Animal Issues Committees and Plans for their counties.

A training video for local AICs has been developed.

**CASHN:** Texas hosts County Animal Security and Health Network pilot project at the American Airlines Training Center in Ft. Worth for a cooperative effort engaging 72 county, regional and tribal Extension educators, 6 state veterinarians, and 18 Extension Program Leaders from the 1890, 1994, and 1862 land-grant Extension programs in AR, KY, MT, NC, TN and TX.

**ESF:** TCE identified the four Emergency Support Functions that we have expertise to support. Readiness commitments are being drafted and submitted to each lead state agency for inclusion into the State Emergency Management Plan.

**Other Activities**
- “Disaster Stikes” video posted to Texas EDEN web site and shared with CSREES.
- NIMS IS 700: All county Extension agents required to complete NIMS IS 700.
- Report on Statewide participation in National Preparedness Week, Sept. 2006
- TCE Recognized Texas Department of State Health Services with TCE Partnership Award
- Update presentation to TCE District and Regional Managers at Ag. Program Conference
- Facilitated the linking of every county web site to Texas EDEN
- Developed an on-line course for Child Care Centers that focuses on preparedness and posted it on the Texas EDEN web site as well as on the TCE on-line course site.
• Continued funding from Texas Department of State Health Services. Current grant focuses on Pandemic Flu Preparedness for families.
• Collaborated with state 2-1-1 director to explore possibility of developing a 2-1-1 master call volunteer program. White paper and draft proposal written (Looking for funding).
• Collaborated with Texas Sea Grant Extension to support a proposal written by a local organization on the Texas coast that will facilitate CERT training of volunteers. TCE will help solicit volunteers to be trained when the proposal is funded. This will involve all coastal counties.
• Supported Texas Forest Service with distribution of RED Flag Warnings for counties where fire hazard existed.
• Supported National Preparedness Month throughout the state with local activities in each county.

Submitted by: Margaret Hale

TEXAS SEA GRANT
Earlier this year, the Sea Grant Director, Bob Stickney, committed the Texas Sea Grant Program to be a member of EDEN and nominated Ralph Rayburn, Associate Director and Sea Grant Extension program leader, as the point of contact.

Much of the activities of the Texas Sea Grant Program during the last year will be given in Mr. Rayburn’s presentation to the Annual EDEN meeting.

EDEN related program activities over the past year include:
• Operating through an IPA (Intergovernmental Personnel Action) for the National Sea Grant Office to build a prototype program for a partnership between FEMA and Sea Grant.
• Supporting engagement of the Texas Coastal Management Program in coastal hazard related issues.
• Joining as a charter member of the Gulf of Mexico Alliance Resiliency Working Group to focus on resiliency issues in the Gulf of Mexico under this regional governance initiative.
• Coordinating hurricane awareness conferences along the Texas coast in partnership with local emergency managers and first responders.
• Supporting efforts to conduct an improved vulnerability assessment of the Houston-Galveston area.
• Assisting in the establishment of a hazards extension specialist at the NOAA Severe Storms Lab in Norman, OK to assist in outreach and education efforts on the CI-Flow model to merge river flooding with storm surge for better response to tropical cyclones.

Submitted by: Ralph Rayburn

UTAH

UTAH STATE UNIVERSITY
During 2007, Utah State University (USU) Extension has partnered with the Utah Partnership for Conservation and Development (UPCD) in an effort to mitigate the adverse effects of extreme drought conditions and a severe fire season in Utah. The UPCD consists of state and federal agencies including the Utah Department of Agriculture and Food; USU Extension; USDA, NRCS; SITLA; U. S. Forest
Appendix - Success Stories

Service; Utah Department of Natural Resource; USDA, Farm Service Agency; and the Bureau of Land Management.

Damage due to wild fires in Utah during the summer of 2007 killed at least four people, burned over 500,000 acres in central Utah and caused over $6 million in direct losses to farmers, cost over $5 million to fight, and caused severe air quality problems along the Wasatch Front (Utah, Davis, Salt Lake, Weber Counties). Drought conditions were potentially even more widespread and devastating to farmers and ranchers in Utah in 2007.

USU Extension identified producers affected by the major wildfires and these people, plus others adversely affected by drought conditions, were invited to workshops held by USU Extension in Park Valley, Beaver, Richfield, Fillmore, Nephi, and Roosevelt. The purpose of these workshops was to provide information to producers to help them minimize the economic impact of fire damage and drought conditions. Information included appropriate methods for seedbed preparation and variety selection for reseeding damaged rangeland. Information was also provided about alternative feed sources and nutritional requirements. Finally, economic information was provided concerning how to make appropriate herd culling and feed purchase decisions and also regarding tax implications resulting from the forced sale of livestock. These seminars were well attended in some locations and sparsely attended in others, but attendees showed genuine interest in the information provided. Follow up surveys will be conducted to determine what decisions were made by producers attending the meetings and to determine the economic impact of those decisions.

USU county extension agents in the northern Utah counties of Cache County and Rich County organized hay donation drives for farmers and ranchers affected by wildfires and drought. Over 250 tons of hay was donated in Cache County and over 100 tons in Rich County. Independent truckers and trucking companies hauled the hay to designated locations. Total value of donations and trucking likely exceeded $50,000.

Submitted by: Kris Saunders
The EDEN national Web page (www.EDEN.lsu.edu) provides resources for Extension disaster education efforts and for the general public. It is estimated that EDEN has a reach for more than two million people per year through the state-by-state Web pages. The following pages provide a glimpse of what EDEN looks like in various selected states.
Appendix - Web Resources by Institution

Alabama

http://www.aces.edu/eden/

Arizona

http://cals.arizona.edu/firewise/

Arkansas

http://www.aragriculture.org/biosecurity/default.htm

California

http://www.ca4h.org/projresource/prep/index.0.htm
Appendix - Web Resources by Institution

**Colorado**

- [http://coloradodisasterhelp.colostate.edu/](http://coloradodisasterhelp.colostate.edu/)

**Florida**

- [http://disaster.ifas.ufl.edu/](http://disaster.ifas.ufl.edu/)

**Georgia**

- [http://www.agrosecurity.uga.edu/](http://www.agrosecurity.uga.edu/)

**Connecticut**

- [www.disasterhelp.uconn.edu](http://www.disasterhelp.uconn.edu)
Appendix - Web Resources by Institution

**Idaho**

We are a member of the Eden Program.

- **Idaho**
  - [http://www.ag.uidaho.edu/disaster/](http://www.ag.uidaho.edu/disaster/)

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**Illinois**

University of Illinois Extension

**Disaster Resources**

- **Resources for Educators**
  - [http://web.extension.uiuc.edu/disaster/resource.html](http://web.extension.uiuc.edu/disaster/resource.html)

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**Kansas**

- **Flood Survival and Recovery**
  - [http://www.oznet.ksu.edu/library/Flood/](http://www.oznet.ksu.edu/library/Flood/)

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**Kentucky**

- **Kentucky Extension Disaster Education Network (KY-EDEN)**
  - [http://www.agwx.ca.uky.edu/EDEN/EDEN.html](http://www.agwx.ca.uky.edu/EDEN/EDEN.html)

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Indiana

http://www.ces.purdue.edu/eden/

Iowa

http://www.extension.iastate.edu/DisasterRecovery/

Maryland

http://www.agsecurity.umd.edu/

Michigan

http://web1.msue.msu.edu/emergency/
Mississippi

Mississippi State University Extension Service

Disaster Assistance
Preparation and Recovery

In cooperation with the Mississippi Emergency Management Agency and Federal Emergency Management Agency through USDA, the Mississippi State University Extension Service is providing relevant, research-based information on this site that deals with various disaster preparedness and recovery issues.

Choose a topic

Cleanup & Repairs

Fact Sheets and Publications:
- Clearing Debris Form (PDF format)
- Cleaning Flooded Carpets and Rugs (PDF format)
- Cleaning Up Floodwater (PDF format)
- Home Clean-up Formulas (PDF format)
- Home Clean-up Formulas (PDF format)
- Managing Floodwater (PDF format)

Frequently Asked Questions
- Are clothes, eating utensils, jobs, money, or other household items that have come in

Mississippi

http://msucares.com/disaster/index.html

Minnesota

http://www.extension.umn.edu/projects/disaster/

Missouri

http://extension.missouri.edu/cemp

Montana

www.montanahelp.org
New Jersey
Appendix - Web Resources by Institution

New York

North Carolina

New Mexico

Appendix - Web Resources by Institution

http://njaes.rutgers.edu/disasters/

http://emergencypreparedness.cce.cornell.edu/

http://cahe.nmsu.edu/ces/nmhs/

http://www.ces.ncsu.edu/disaster/
North Dakota

Appendix - Web Resources by Institution

http://www.ag.ndsu.edu/disaster

Oklahoma

Extension Forestry, and Aquaculture

Publications

http://agweb.okstate.edu/fwa/pubpage.html

Oregon

Oregon State University

IT COULD HAPPEN TO YOU
Be Prepared for Natural Disasters

http://extension.oregonstate.edu/emergency/naturaldisasters.php

Pennsylvania

Welcome to the College of Agricultural Sciences Disater Resources Page.

The Disaster Resources site has been developed to provide a centralized source of useful information to the people of Pennsylvania as well as the entire community to cope with emergency situations. Included here are state and national disaster agencies, Cooperative Extension Disaster Pages and other pertinent emergency websites.

Currently, there are two categories of resources: general disaster information, weather-related warnings, including droughts, floods, and winter storms, and Ready disaster emergencies. We intend to broaden this issue to include additional emergency resources in future development.

For more information contact:

Jack Watson, State Program Leader, Ag & Natural Resources
401 Ag Administration Building
University Park, PA 16802

Appendix - Web Resources by Institution

http://www.cas.psu.edu/docs/coext/disaster/disaster.html
South Carolina

Clemson University Cooperative Extension Service
Emergency Preparedness

South Carolina

http://www.clemson.edu/ep/

SC - Sea Grant

South Carolina Sea Grant

http://www.haznet.org/

SC - Sea Grant

SC - Sea Grant

http://www.113calhoun.org/

South Dakota

South Dakota Cooperative Extension Service
Emergency Preparedness

http://sdces.sdstate.edu/prepare/

Appendix - Web Resources by Institution

http://sdces.sdstate.edu/prepare/
Appendix - Web Resources by Institution

**Tennessee**

- [http://biosystems.utk.edu/](http://biosystems.utk.edu/)

**Texas**

- [http://biosystems.utk.edu/](http://biosystems.utk.edu/)

**Utah**

- [http://extension.usu.edu/ueden/](http://extension.usu.edu/ueden/)

**Wisconsin**

- [http://www.uwex.edu/lgc/disaster/disaster.htm](http://www.uwex.edu/lgc/disaster/disaster.htm)
Supplemental Presentation Handouts

Used February 12 - 13 for CSREES Review

The following are handouts that were used during presentations to the CSREES EDEN review team. Each provides more detail on available resources, financial issues, and current projects by member institutions.
The network continues to evolve, and its diversity of materials available through the EDEN Web site will work to maintain a consistency in high quality branding at all levels. As noted on pages 39-44 of the review document, EDEN has organized a diverse collection of educational resources. Selected highlights show: (1) the current impact of available EDEN courses, and the range of target audiences; and (2) the capabilities of the up-and-coming EDEN Web site, and how it can better serve the audiences that are in need of disaster-related educational materials.

EDEN Courses

The following user information is based on information collected from April 2007. Courses that were released to the public prior to April 2007 are denoted by an asterisk (*).

**Plant Biosecurity Management***
*Registered Users: 38*
Identified Target Audiences: Extension Agents, University Students, Farmers, International Visitors, Disaster Situation Groups, Working Ag & Forestry Group (Selected Names: New Zealand, University of Malta, USDA)
*Estimated Audience Reach: 295*

**OnGuard – Protecting America’s Food System***
*Registered Users: 19*
Identified Target Audiences: Extension Agents, Consumer Groups, Directors/Employees, Veterinary Officers, Emergency Planners, Food Safety & Security Personnel (Selected Names: Hawaiian Ocean View Estates Road Maintenance, U.S. Army, Smithfield Beef)
*Estimated Audience Reach: 149*

**USDA’s Roles in the National Response Plan***
*Registered Users: 15*
Identified Target Audiences: Extension Staff, Department of Agriculture, Animal Response Team (Selected Names: Washington Department of Agriculture)
*Estimated Audience Reach: 160*

**Ready Business – Preparing a Disaster Business Plan * ***
*Registered Users: 110*
Identified Target Audiences: Chamber of Commerce, Small/Large Businesses, County Extension Offices, University Graduate Students (Continuity/Crisis Management and Environmental Health & Safety Classes), County Continuity Planning Group, Church, Hospital (Home Health Staff), Airport Employees, Extended Care Facilities, Adult Day Care, Board of Directors, Rotary Club, Disaster Planning Team, Leadership Team (Selected Names: NOAA, Sherwin-Williams, Detroit Metro Airport, U.S. Environmental Protection Agency, Griffin Foods, Ohio Department of Health)
*Estimated Audience Reach: 5,571*
Pandemic Preparedness for Businesses*

Registered Users: 50
Identified Target Audiences: Faith Communities, Pharmacists, County Health Department, Pandemic Committees, Parish Nurse Network, Ohio Department of Job and Family Services, Retail Business Group, Bankers, Board of Directors, Small Business Representatives, (Selected Names: Maryland Department of Natural Resources Police, Washington Savings, Hawaiian Ocean View Estates Road Maintenance)
Estimated Audience Reach: 1,835

Pandemic Influenza Preparedness for Faith-Based Organizations

Registered Users: 142
Audiences: Faith-Based Organization/Consortium, Church, Pandemic Planning Group, Christian School, Community Leaders, Clergy, Campus Staff, Community Meeting, Family Community Education Conference, Human Service Agency, General Community (Tanzania), University Class, Non-Profit Organizations (Selected Names: United Way)
Estimated Audience Reach: 7,298

EDEN Web Site – Move to MOSS

What is MOSS? – Microsoft Office SharePoint Server

Much delegate feedback has identified the need for a user-friendly system. MOSS will provide that ease of use. Primary characteristics that will benefit the network, delegates, partners, and the interested public include:

Enhancement of Existing Features:
• Communication and collaboration capabilities
• Search functions
• Web site reporting capabilities

New Features:
• Built-in content management system
• Meeting accessibility standards
• Built-in RSS (Real Simple Syndication) support – enabling better collaboration with eXtension
EDEN grew because the Land Grant Extension directors and CSREES have provided support. Estimates show that Land Grants voluntarily committed about $1.8 million FTE (2002) and $3.8 million FTE (2008) into EDEN per year. To enhance that investment CSREES has averaged about $288,000 per year for the last 7 years (last year’s investment was approximately $470,000 into the EDEN organization). Note that the Land Grant funds are based on delegates’ estimates of FTE input in 2002 and 2008 surveys, and the CSREES funds actual dollars provided to the EDEN organization. There have been other special needs grants provided to Land Grants that have addressed disaster education issues that EDEN doesn’t manage.

How has all this helped EDEN?

Organization:

- CSREES historically provides significant support:
  - Provided the first $80,000 that led to the formation of EDEN;
  - Provide annual communication and management support salary and expense;
  - Web support salary and expenses since 2002 (Provided by LSU Ag Center before)
  - National Planning and Partnership Development:
    - Travel for EDEN Exec. for planning meetings
    - Travel for EDEN representatives to attend key meetings
  - FTE for CSREES liaisons in Washington DC (this is not calculated in the estimates above).
- Land Grants provide FTE and travel for executive committee members at time (unknown).

Educational program development and delivery

- Land Grants’ FTEs provide for state and local program development and delivery.
- CSREES fund provide for national EDEN Courses and Regional Workshops
  - Provides communication and management support salary and expenses
  - Web support salary and expenses
  - Course development salary and expenses
  - Regional agro security conferences expenses (Land Grants provide FTE support)
  - eXtension support.
- Page 37 and 38 provide details on results of this investment
EDEN’s Greatest Hits

► 50 states and 3 territories involved—building a network on a shoestring

With little external support, the organization has developed into a dynamic, diverse, effective national Extension organization that reaches to the 3000 counties and parishes in the nation and territories.

► Immediacy of information and willingness to HELP—committed people with valuable information

When a specific request for information is shared within the network, POC’s and Delegates respond within minutes with research based information from their institution, or from their professional contacts.

► Sharing resources; we’re a portal to the Extension system—very collaborative group

When disaster information is needed at the local level, the state network responds, as well as the national network. Extension educators access disaster education information from the entire system.

► Variety of areas of expertise—economic multiplier—multiplier in the states

EDEN can access subject matter experts within the institutions in the Land-Grant system. Those individuals may not be directly involved with EDEN, but their information is made available through the system. Sharing expertise in this manner adds significant value to the resources of each institution without direct economic cost.

► Credibility / highly recognized

The EDEN name and logo have been widely recognized at local, state, and national levels because of the quality and timeliness of information. USDA leadership recognizes the value and credibility of EDEN professionals and the quality information made available through the EDEN network.

► Current and emerging issue web pages plus state Extension disaster information web pages

Many state Land-Grant Institutions choose to align their individual disaster information web pages with the EDEN website. This direct link to the system gives increased recognition and credibility to the network, and to the EDEN representatives. When emerging issues surface, EDEN promptly provides a response through an issue web page. Examples include Agrosecurity, Ice and Snow, DHS Chemicals of Interest Regulations, Avian Influenza, Foot and Mouth Disease, BSE, Hurricanes, Children and Disasters, Plant and Crop Security, Tsunamis, West Nile Virus, and more.

► Web-based courses developed to meet needs

Each of the EDEN “Learning Opportunities” educational curriculums have been developed as the result of national needs assessments. Individuals and institutions are selected for
educational material development by competitive process. EDEN awards projects based on needs, available resources, and the professional capability of the institution to develop and deliver a practical, need-based educational program.

► Timely responsiveness to 9/11 and to Katrina

Within hours, resources were posted within the EDEN system and fact sheets were downloaded and distributed to affected individuals and families.

► DHS subcommittee re-wrote chemical regulations using EDEN influence and terminology

Based on EDEN input and direct interaction with DHS officials, the intent of the DHS Chemicals of Interest Regulations were expanded to include a time extension for end-use agriculture producers saving producers an estimated $32 million in management time.

► EDEN invited to provide congressional briefing and congressional testimony

EDEN was invited by the American Association for the Advancement of Science (AAAS) to provide a congressional briefing, and separate interaction with several Homeland Security congressional committees. Additionally, EDEN representation was invited to give formal Congressional testimony on the Safety and Security of America’s Food and Agriculture system.

► EDEN Regional Animal Agrosecurity Conferences - recognized value internally, and with partners

Extension professionals throughout the country recognize they need to better define their roles -- and the roles of other agencies and organizations -- before, during, and after an animal agrosecurity event. In addition, these roles will vary from state to state so there is a need to help agencies and organizations more fully understand the capacity to which Extension can serve in this arena. Local, State, and Federal partners who would have responsibility in an Animal Agrosecurity Incident participated. Roles and responsibilities were explained. New and existing professional partnerships were developed and enhanced. Best practices were shared. EDEN coordinated three regional Animal Agrosecurity Conferences in 2007 and 2008 (New Mexico, Pennsylvania, and South Carolina). Additional conferences are planned for 2008 in North Dakota, Missouri and Colorado. Follow-up is being planned.

► EDEN is a new way of doing things, as well as a return to the roots of extension

While honoring the Land-Grant Mission, EDEN has developed a network of committed individuals at the state and national level to support the efforts of local, needs-based programming. Leadership within the organization effectively manages resources to address current and emerging disaster education issues at all levels of the organization.

► We’re #1 on ROI in terms of being a project rather than a program. Very successful bottom-up/grassroots effort

► EDEN intervention at the state and local level (State Examples): Colorado-ice storm, North Dakota-flooding, Indiana-tornadoes, Missouri, others