Strengthening Community Agrosecurity Planning

Andrea Higdon, Emergency Management System Director Melissa Newman, Professor - Animal & Food Sciences

University of Kentucky

College of Agriculture, Food and Environment

New York State Emergency Management Association 2017 Winter Conference

February 22, 2107



Agricultural Statistics

New York State

- Market Value of Ag Products Sold:
 - \$5.4 Billion
 - Crops (incl. nursery and greenhouse): \$2.2B
 - Animals (incl. livestock, poultry, and their products):\$3.2B
- Value of Sales:
 - \$2.4B milk from cows

Onondaga Co.

- Market Value of Ag Products Sold:
 - \$152 Million
 - Crops (incl. nursery and greenhouse): \$48M
 - Animals (incl. livestock, poultry, and their products):\$104M
- Value of Sales:
 - \$80M milk from cows

Food and Ag Sector accounts for roughly 20% of US economic activity.

Source: Food and Agriculture Sector-Specific Plan:
An Annex to the National Infrastructure Protection Plan (2010)

W. Committee of the last of th

CART:

Community Animal Response Team



CAP Team:

Community Animal Planning Team



















Overwhelmed?















You May Be Missing Some Slices of Your Pie



All You Need Are the Right Tools



Strengthening
Community Agrosecurity
Preparedness

Participant Guide

January 2014

At the end of the two-day workshop, participants:

- Describe community animal assets
- Conduct animal risk assessment
- Recognize needed animal capabilities
- Develop animal SOGs
- Brainstorm animal resources
- Identify local subject matter experts





Stakeholder Involvement

- The people you want to help bake YOUR pie (write your animal/agricultural plan) include:
 - Extension (Cornell)
 - Public health
 - Veterinarians
 - Industryrepresentatives
 - Zoo directors

- Producers
- Animal control
- Emergency planners at other levels
- First responders
- Others

What is Extension?

- Land- and Sea-Grant colleges and universities
- Research-based outreach education
- Local representation in all states
- Extension Disaster Education Network (EDEN)



NIFA LAND-GRANT COLLEGES AND UNIVERSITIES



EDEN Strengthening Community Agrosecurity Preparedness

54 workshops

291 counties

24.3 million residents

EDEN Strengthening Community Agrosecurity Preparedness

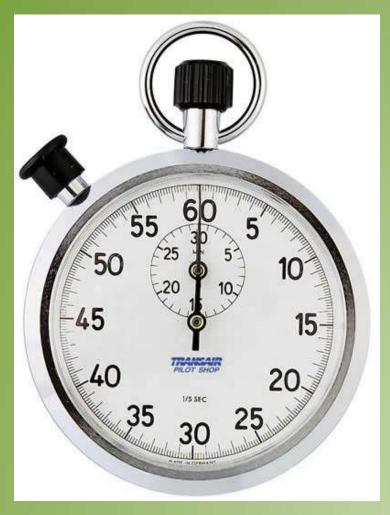


Agricultural Emergency Planning Can Benefit Entire Plan





EDEN Strengthening Community Agrosecurity Preparedness





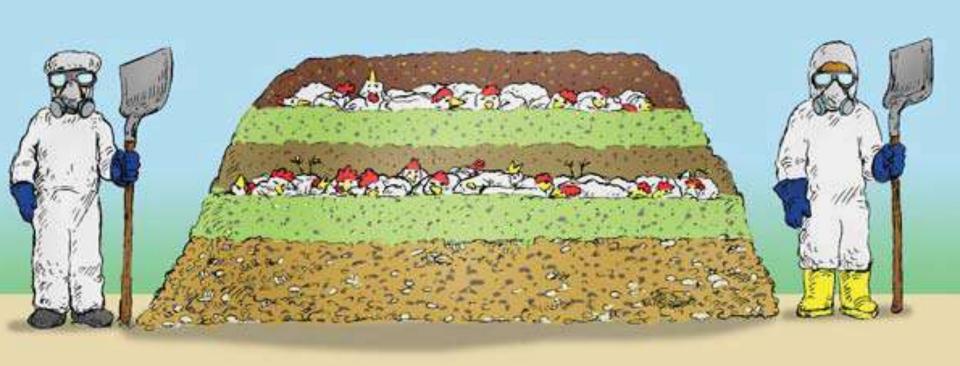
EDEN Strengthening Community Agrosecurity Preparedness

Capability:

Carcass Disposal



Composting





Resources Needed

- People
- Equipment
- Supplies
- Site
- Carbon Source





Local Emergency and Disaster Planning for Animals



THE THE THE



Pets Needing Assistance





TOTAL HUMAN POPULATION

$$X 0.10 =$$

PEOPLE NEEDING ASSISTANCE (PNA)



PNA







Pets Needing Assistance





468,387

X 0.10 =

PEOPLE NEEDING ASSISTANCE (PNA)



PNA

÷ 2.6 =





Pets Needing Assistance





468,387

X 0.10 =

46,839



PNA

÷ 2.6 =





Pets Needing Assistance





468,387

X 0.10 =

46,839



46,839

÷ 2.6 =



Module 3a: Small Animal Shelter



Pets Needing Assistance





468,387

X 0.10 =

46,839



46,839

 \div 2.6 =



18,015







HNA

X

(AVMA FACTOR)

CATS IN HNA





18,015

X

0.638

CATS IN
HNA







18,015

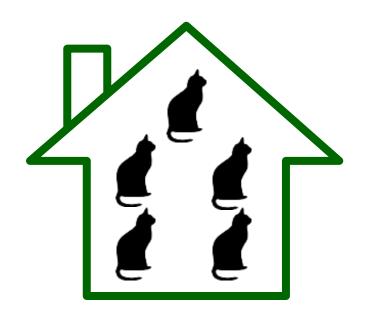
X

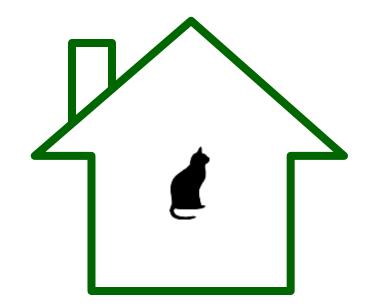
0.638

=

11,494





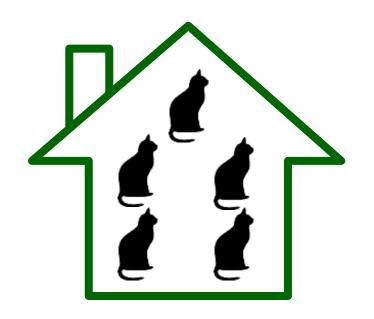


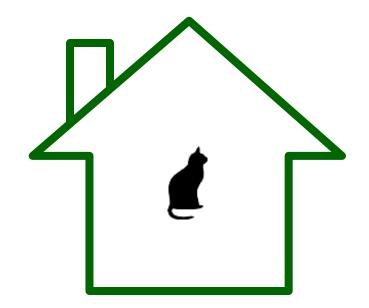
CATS IN HNA

X 0.20 =

CATS REQUIRING SHELTER





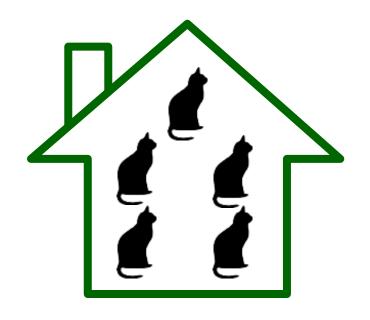


11,494

X 0.20 =

CATS REQUIRING SHELTER





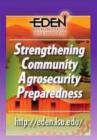


11,494

X 0.20 =

2,299





EDEN Strengthening Community Agrosecurity Preparedness Program Report

December 2016

Overview

The Extension Disaster Education Network (EDEN) Strengthening Community Agrosecurity Preparedness (S-CAP) program provides a foundation for local jurisdictions to address agricultural emergencies and disasters. The program began with planning workshops and evolved to include a train-the-trainer program, tabletop exercise, planning tools, and virtual and face-to-face stakeholder forums.

Workshops

The two-day workshops empower local Extension personnel and other community partners to:

- build capacity to handle agricultural issues during an emergency or disaster;
- improve networking among stakeholders who can plan for and respond to emergencies; and
- develop Community Agrosecurity Planning teams to establish or enhance agrosecurity components within existing local emergency operations plans.

Whole community emergency planning teams' participation in the two-day workshops and their sustained efforts enhance the agricultural components of their local emergency operations plans. Fifty-four (54) S-CAP workshops have been conducted, which represent:

- 24 states
- 291 counties
- 24.3 million residents

The workshop is approved by the FEMA National Training and Education Division - Course number: DHS-033-PREV https://www.firstrespondertraining.gov/catalog.do?a=state_federal

Workshop participants represent the whole community. Multi-disciplinary stakeholders add value to local emergency managers' activities to enhance the agricultural portion of their local emergency operations plan.



REGISTER NOW Animal Resource Exercise



Agrosecurity photo: John O'Neill

https://commons.wikimedia.org/wiki/File:Barbed_Wire,_SC,_Victoria,_15.9.2007.jpg

Ag GDP chart: USDA Economic Research Service

http://ers.usda.gov/data-products/chart-gallery/detail.aspx?chartId=40037&ref=collection&embed=True&widgetId=39734

Food and Ag Sector economic activity statistic: Food and Agriculture Sector-Specific Plan: An Annex to the National Infrastructure Protection Plan (2010), http://www.dhs.gov/xlibrary/assets/nipp-ssp-food-ag-2010.pdf

CART photo: FEMA – Jacinta Quesada

CAP team photo: FEMA - Dave Saville

Flooded field photo: Kentucky Emergency Management

Ice covered cow photo: Andrea Schneider

Air National Guardsmen photo: US Air Force, Senior Master Sergeant John Rohrer

Train derailment photo: Bob Safay, US EPA, Atlanta, GA

Dead cow in snowdrift: dairycarrie.com

Large animal rescue photo: FEMA – Jocelyn Augustino

Pet sheltering photo: FEMA – Andrea Booher

Flooded turkeys photo: FEMA – Dave Gatley

Avian influenza map: National Biosurveillance Integration System Monitoring List

Pumpkin pie photo: Evan-Amos

https://commons.wikimedia.org/wiki/File:Pumpkin-Pie-Whole-Slice.jpg

Grandma photo: Jessica Fless-Hill

https://www.flickr.com/photos/gesika22/5608196311/in/photostream/

Land Grant map: NIFA USDA

http://nifa.usda.gov/sites/default/files/resource/lgu_map_6_25_2014_0.pdf

S-CAP map: Extension Disaster Education Network

Round bales photo: Eric Forget

https://www.flickr.com/photos/tarchamps/2874904201/in/photolist-5jAV5X-5jAXdx-5o3CRP

Ambulance photo: Daniel Schwen

https://commons.wikimedia.org/wiki/File:STL_Ambulance.jpg

Stopwatch photo: O5com

https://www.flickr.com/photos/o5com/5488964999

Truck rollover photo: Camey Thibodeau, Daily News

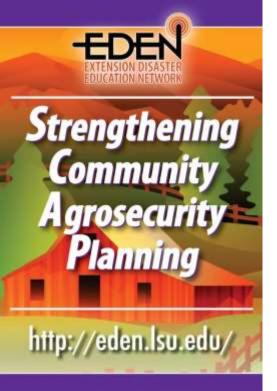
http://www.southernminn.com/faribault_daily_news/news/local/article_6a287a95-a921-5ee6-9f70-d950daa7c2b2.html?mode=image&photo=

Composting image: Cornell Waste Management Institute http://www.ans.iastate.edu/EIC/AI/Composting_Cornell.pdf

Composting information: Tommy Bass, Montana State University Extension

Wood shavings photo: http://www.acmesand.com/horse-bedding

Rose calf photo: Andrea Higdon



Andrea Higdon

Emergency Management System Director
University of Kentucky
College of Ag, Food and Environment
(859) 257-7868
andrea.higdon@uky.edu

Melissa Newman

Professor – Animal and Food Sciences
University of Kentucky
College of Ag, Food and Environment
(859) 257-5881
mnewman@uky.edu