



2011 Sector Critical Infrastructure Annual Report Attachment A:

Food and Agriculture Sector Coordinating Councils
Project Summary and Selected 2010/2011
Accomplishments



**Homeland
Security**



**Food and Drug
Administration**



**U. S. Department
of Agriculture**

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Attachment A: FA Sector Coordinating Councils Project Summary and Selected 2010/2011 Accomplishments

FA Sector projects and selected accomplishments are highlighted in the areas of partnership (table A-1), critical infrastructure (table A-2), preparedness (table A-3), detection (table A-4), emergency response (table A-5), and recovery (table A-6).

Table A-1: Partnership

Partnership—Goals and Outcomes:	
Enhance public-private partnerships by:	
<ol style="list-style-type: none"> 1. Facilitating partnerships between public and private entities to help coordinate and enhance the protection of the agriculture and food system of the United States; 2. Providing for the regular and timely interaction and exchange of information between public and private sectors relating to the security of the agriculture and food system (including intelligence information); 3. Identifying best practices and methods for improving the coordination among Federal, State, local, and private sector preparedness and response plans for agriculture and food defense. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Agriculture/Food Intelligence Working Group • Agriculture Priorities and Allocations System • Agriculture Screening Tools • Animal Health Network: A System to Alert Noncommercial Livestock Owners about Disease Outbreaks • Council to Improve Food-borne Outbreak Response • Customs and Border Protection • Department of Education Readiness and Emergency Management for Schools Grantee Meeting • Economically Motivated Adulteration (EMA) National Center for Food Protection and Defense (NCFPD) Working Group Exploratory Survey • Employees FIRST Food Defense Awareness Training Kit • Extension Disaster Education Network (U.S. Department of Agriculture [USDA]/National Institute of Food and Agriculture [NIFA]) • Extension Disaster Education Network (EDEN) Strengthening Community Agrosecurity Planning Workshops • Emerging Chemical Threat Research and Planning • Food and Agriculture Sector Criticality Assessment Tool (FASCAT) • Food & Agriculture (FA) Sector Criticality Workgroup • FA Sector Coordinating Council (FASCC) • FA Sector Government Coordinating Council (FASGCC) • National Center for Foreign Animal and Zoonotic Disease Defense (FAZD) Education and Outreach Efforts • Federal Bureau of Investigation (FBI) Agroterrorism Workshops 	<ul style="list-style-type: none"> • The Animal Health Network is fully adopted by Michigan and partially adopted by Arkansas, Kentucky, and Texas. In 2011, the National Animal Health Laboratory Network (NAHLN) hopes to expand adoption to an additional five States. • Five organizations completed the EMA NCFPD Working Group Exploratory Survey, including three manufacturers, one consultant, and one food service organization (a restaurant). • The FBI hosted two Food and Agroterrorism Workshops, including one in Napa Valley, California (June 2010), which drew 82 attendees, and another in Des Moines, Iowa (August 2010), which drew 77 attendees. The workshops included representatives from local law enforcement; public health, and agriculture SLTT representatives; private sector; and Federal partners. • The 50-State workshop brought together 267 attendees with diverse perspectives from Federal and SLTT government agencies. This roster included officials with expertise in food, feed, epidemiology, laboratory processes, animal health, and environmental and public health. • The Food and Agriculture Defense Research Database has more than 300 entries. More than 1,000 projects have been reviewed. • The FASGCC consists of 59 members representing 22 agencies/organizations, including Federal and SLTT entities and Centers of Excellence. On average, 24 members representing 67 percent of FASGCC agencies/organizations participated in six monthly FASGCC calls, and 32 members representing 60 percent of FASGCC agencies/organizations participated in three joint FASGCC/FASCC quarterly meetings.

Table A-1: (Cont.)

Partnership—Goals and Outcomes:	
Enhance public-private partnerships by:	
<ol style="list-style-type: none"> 1. Facilitating partnerships between public and private entities to help coordinate and enhance the protection of the agriculture and food system of the United States; 2. Providing for the regular and timely interaction and exchange of information between public and private sectors relating to the security of the agriculture and food system (including intelligence information); 3. Identifying best practices and methods for improving the coordination among Federal, State, local, and private sector preparedness and response plans for agriculture and food defense. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • U.S. Food and Drug Administration (FDA) Company-Specific Vulnerability Assessments (VAs) • FDA Food Defense Mitigation Strategies Database • FDA 50-State workshop/working group meetings • Food and Agriculture Defense Sub-IPT (Integrated Project Team) Efforts • Food and Agriculture Readiness Measurement (FARM) Toolkit • Food Contamination Detection Requirements Analysis • Food Defense Research Database • Food Defense Outreach Activities • Food Defense Risk Mitigation Tool (USDA/Food Safety and Inspection Service [FSIS]) • Food Emergency Response Network (FERN) • Food Emergency Response Plan (FERP) Template version 2.0 • Food Protection Rapid Response Team and Program Infrastructure Improvement Prototype Project • Food Protection Task Force Conference Grant Program • Food Safety and Defense Task Force • FoodSHIELD • Foreign Animal Disease Modeling Project • Global Foot-and-Mouth Disease Research Alliance • Homeland Security Information Network-Food & Agriculture (HSIN-FA) • Information Dashboard Framework • Innovative Food Defense Program Grants • Integrated Food Safety System/Partnership for Food Protection • Interagency Food Safety Analytics Collaboration • International and Domestic Food Transportation VAs • International Food Defense Workshops • International Food Protection Training Institute • International Symposium on Managing Animal Mortality and Health Risk • Multi-State Partnership for Security in Agriculture (MSP) • National Animal Health Laboratory Network • National Bio and Agro-Defense Facility • National Center for Biomedical Research and Training • National Center for Food Protection and Defense Activities • National Center for Foreign Animal and Zoonotic 	<ul style="list-style-type: none"> • The FASGCC initiated and finalized development of a value proposition and engagement plan. • The Food Protection Taskforce Conference Grant program awarded up to \$10,000 to 27 States; five of these States were added in fiscal year (FY) 2010. • More than 6,000 Federal, State, and local regulators, laboratory staff, military personnel, and academicians are active members in FoodSHIELD and its associated portals. FoodSHIELD is being integrated with HSIN-FA as the primary platforms being leveraged for the six Information Sharing Environment (ISE) processes that were developed and vetted for the FASGCC and the FASCC. • A total of 28 veterinary diagnostic laboratories received cooperative agreement funding through NIFA. • FSIS Food Defense Assessment Staff presented two briefings to the Association of Food and Drug Officials (AFDO) on FSIS Food Defense Plan adoption progress and redacted vulnerability reports available for information sharing. Sixty (60) people were briefed for 30 minutes on FSIS’s efforts to increase voluntary adoption of food defense plans. At the request of AFDO, FSIS redacted more than 16 classified reports so that States could better focus resources. • The National Plant Diagnostic Network (NPDN) continued to work closely with partners in NIFA to ensure that a National Plant Protection Laboratory Accreditation Program begins and is implemented within the NPDN. Currently, training on Quality Management Systems and development of standard operating procedures for laboratories is under way. • The Citrus Health Response Program Science and Technology Coordination Group continued to work closely with partners in NIFA, Agricultural Research Service (ARS), universities, and industry to coordinate and facilitate critical research needs for the citrus industry. • USDA/Animal Plant and Health Inspection Service (APHIS) held workshops with stakeholders in Texas and New York to explore gaps related to all-hazards animal health and food safety response. • USDA/APHIS, U.S. Department of Homeland Security (DHS), and other stakeholders began planning for a 2012 animal health emergency management symposium. • USDA/APHIS, the U.S. Environmental Protection Agency (EPA), and the National Renderers Association

Table A-1: (Cont.)

<p>Partnership—Goals and Outcomes: Enhance public-private partnerships by:</p> <ol style="list-style-type: none"> 1. Facilitating partnerships between public and private entities to help coordinate and enhance the protection of the agriculture and food system of the United States; 2. Providing for the regular and timely interaction and exchange of information between public and private sectors relating to the security of the agriculture and food system (including intelligence information); 3. Identifying best practices and methods for improving the coordination among Federal, State, local, and private sector preparedness and response plans for agriculture and food defense. 	
Projects	Selected 2010/2011 Accomplishments
<p>Disease Defense</p> <ul style="list-style-type: none"> • National Environmental Health Association Activities • National Plant Diagnostic Network • Natural Antimicrobials to Mitigate Biological Threat Agents • North Carolina Department of Agriculture and Consumer Services Training and Exercises • National School Lunch Program (NSLP) Threat Agent Testing Program • Optical Detection of Microbial Contamination in Food Matrices • Partnership for Food Protection • PETNet • President’s Food Safety Working Group • QuEChERS Technologies for Detection of Threat Agents to the Food Supply • Rendering Plant Continuity of Business Study • Reportable Food Registry (FDA) • Sampling and Analysis of Products at the Port of Entry • Small Scientific Conference Grant • Small/Very Small Plant Outreach • Southern Agriculture and Animal Disaster Response Alliance (SAADRA) • SAADRA National Veterinary Stockpile 2010 Logistics Exercise • Strategic Planning Collaboration workshops in Texas and New York • Training to Enhance Effective and Timely Sharing of Information and Intelligence on the Importation and Transportation of Food, Food Ingredients, and Animal Feed in the United States • Updated Food Defense Guidelines for Transportation and Distribution 	<p>continued work on a study to evaluate the risks of rendering infectious carcasses and to develop mitigation protocols for situations where risk is excessive.</p>

Table A-2: Critical Infrastructure

Critical Infrastructure—Goals and Outcomes:	
<p>Risk to Level 1 and Level 2 assets, systems, functions, and networks, as well as to those identified as critical by sectors and SLTT, is managed by:</p> <ol style="list-style-type: none"> 1. Identifying and analyzing relevant risks; 2. Setting risk management goals and objectives based upon risk analysis; 3. Implementing prioritized policies and programs based upon the risk reduction goals, objectives, and gaps; and 4. Measuring the effectiveness of policies and programs at achieving the risk reduction goals and objectives. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Agriculture Priorities and Allocation System • Emerging Chemical Threat Research and Planning • Extension Disaster Education Network (USDA/NIFA) • EDEN Strengthening Community Agrosecurity Planning Workshops • FASCAT • FDA Food Defense Mitigation Strategies Database • Food Defense Risk Mitigation Tool (USDA/FSIS) • Food Protection Rapid Response Team and Program Infrastructure Improvement Prototype Project • Industry Adoption of Food Defense Plans • International and Domestic Food Transportation VAs • National Center for Biomedical Research and Training • NSLP Threat Agent Testing Program • Strengthening Community Agrosecurity Planning Workshops • Updated Food Defense Guidelines for Transportation and Distribution 	<ul style="list-style-type: none"> • FASCAT accomplished the following: <ul style="list-style-type: none"> – Web version 2.0 was released in March 2010 on FoodSHIELD for the data call. – The 2008–2010 FASCAT assessments from 31 States and Puerto Rico have now been entered into version 2.0 of FASCAT. – More than 30 Web-based training sessions have been conducted. – Thirteen (13) onsite training and workshops have been conducted. – Thirty (30) states completed the full Infrastructure Data Collection Application (IDCA) submission for Level 2 consideration in the NCIPP data call.

Table A-3: Preparedness

Preparedness—Goals and Outcomes:	
Enhance the preparedness of the agriculture and food system by:	
<ol style="list-style-type: none"> 1. Conducting VAs; 2. Mitigating vulnerabilities; 3. Improving communication and training; 4. Developing and conducting exercises to test decontamination and disposal plans; 5. Developing modeling tools to improve event consequence assessment and decision support; and 6. Preparing risk communication tools and enhancing public awareness through outreach. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Agriculture Priorities and Allocations System • Agriculture Screening Tools • ALERT (Assure, Look, Employees, Reports, Threat) Initiative • Animal Feed Safety System Initiative (FDA/Center for Veterinary Medicine [CVM]) • Animal Health Network—A System to Alert Noncommercial Livestock Owners about Disease Outbreaks • Animal Health Sensing and Surveillance (II) • Annual Report on Food Facilities, Food Imports, and FDA Foreign Offices • Best Practices for Companies in the Food Supply Chain: A Diagnostic Tool to Benchmark Practices for Food Defense • Center for Agriculture and Food Security and Preparedness • Center for Plant Health Science and Technology Programs (USDA/APHIS) • Center for Plant Health Science and Technology, Treatment Quality Assurance Unit Programs (USDA/APHIS) • Commodity Operations Emergency Response Handbook • Continuity of Operations Level 4 Exercise (USDA/FSIS) • Create and Demonstrate a Secure Egg Supply “Component” to the National Center for Foreign Animal and Zoonotic Disease Defense Decision Support System • Customs and Border Protection • Department of Education Readiness and Emergency Management for Schools Grantee Meeting • Department of Transportation Food Defense Training • DHS/Federal Emergency Management Agency [FEMA]/National Training and Education Division Food and Agriculture Sector-Related Training • EMA NCFPD Working Group Exploratory Survey • EMA Prediction—President’s Food Safety Working Group Task 42 • Emerging Chemical Threat Research and Planning • Employees FIRST Food Defense Awareness Training Kit • Evaluation of Immunogenicity of Rift Valley Fever Virus Candidate Vaccines 	<ul style="list-style-type: none"> • The third of three field test NSLP Tabletop Exercise (TTX) completed; information gained from field tests resulted in completion of draft TTX toolkit. • Four commodity-focused Food Defense Training Programs were developed, and 340 AMS employees conducting food defense evaluations were trained (USDA/AMS). • Food defense evaluations were conducted in more than 650 facilities producing and storing National School Lunch foods (USDA/Agricultural Marketing Service [AMS]). • A contract was awarded and work was started on the update of the Imported Foods Vulnerability Assessment. • The FSIS-Office of Outreach, Employee Education, and Training (OOEET) Continuity of Operations (COOP) Levels 3 and 4 Operating Guidelines were updated and distributed to FSIS-OOEET employees and forwarded to the Office of Data Integration and Food Protection. • Five organizations completed the EMA NCFPD Working Group Exploratory Survey, including three manufacturers, one consultant, and one food service organization (a restaurant). • FSIS OOEET published the 2011 <i>Small Plant News Calendar</i> that is designed to be a food safety and food defense educational resource for the regulated industry. This litho-coated, four-color, flip-design calendar will be distributed to approximately 8,000 establishments throughout the United States and its territories where meat, poultry, and processed egg products are federally and State inspected. Each month of the calendar features useful information and resources that are especially of benefit to owners and operators of small and very small plants. • The OOEET Business Practice Flow was developed for the Office of Data Integration and Food Protection. This flow diagram is for OOEET to use when the emergency management center (EMC) is activated and/or when Non-Routine Incident Report information is entered into the FSIS Incident Management System.

Table A-3: (Cont.)

Preparedness—Goals and Outcomes: Enhance the preparedness of the agriculture and food system by:	
<ol style="list-style-type: none"> 1. Conducting VAs; 2. Mitigating vulnerabilities; 3. Improving communication and training; 4. Developing and conducting exercises to test decontamination and disposal plans; 5. Developing modeling tools to improve event consequence assessment and decision support; and 6. Preparing risk communication tools and enhancing public awareness through outreach. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Exercise Program – Food Protection Exercises (USDA/FSIS) • Extension Disaster Education Network (USDA/NIFA) • EDEN Strengthening Community Agrosecurity Planning Workshops • FA Sector Transportation Model • FAZD Education and Outreach Efforts • FDA Company-Specific VAs • FDA Food Defense Mitigation Strategies Database • Federal Radiological Advisory Team for Environment, Food, and Health • Food and Agriculture Defense Sub-IPT Efforts • FARM Toolkit • Food Defense Outreach Activities • Food Defense Plans for Industry • Food Defense Research Database • Food Defense Risk Mitigation Tool (USDA/FSIS) • Food Defense Surveillance and Verification Procedures • FERN • Food Emergency Response Plan Template version 2.0 • Food Protection Exercises • Food Protection Rapid Response Team and Program Infrastructure Improvement Prototype Project • Food Protection Task Force Conference Grant Program • Food Protection Task Force Grants • Food Safety and Defense Task Force • Food Risk Models for the Bioterrorism Risk Assessment • FoodSHIELD • Foreign Animal Disease Modeling Project • Foreign Animal Disease Threats Subcommittee identification of priority response gaps, including the need for rendering and landfill carcass disposal capacity and an interstate permit system for transporting infectious biomass from the infected premises to a disposal site. • Foreign Animal Disease Vaccine and Diagnostics Project • FSIS OOEET Food Defense and Emergency Response Goal: Enhance the ability of the workforce to protect meat, poultry, and egg products from intentional harm. • FSIS Incident Management System • Global Foot-and-Mouth Disease Research Alliance 	<ul style="list-style-type: none"> • Copies of OOEET’s COOP plan were distributed at OOEET’s all-hands meeting on May 13, 2010, and it was discussed so that each OOEET employee has an awareness of how OOEET’s mission will be carried out in the event that the agency needs to stand up its Continuity of Operations Plan. • The OOEET EMC Representative Orientation Packet was developed. This packet provides background information on the EMC, representative roles, pertinent resources, and training. • The Pandemic Awareness Training PowerPoint for FSIS employees was developed. This self-guided training tool was a mandatory requirement and was made available to all employees in October 2009. This training tool provided employees with an overview of the agency’s actions and plans for how it was addressing workforce needs and ensuring continuity of operations during the spread of the H1N1 influenza strain. A total of 6,173 participants completed the Web-based training during the first quarter of 2010, and 2,622 during the second quarter. A total of 8,795 employees have completed the H1N1 training. The Quick Immersion Training (FSIS Directive 1070.1) was finalized and issued. • The FSIS generic Food Defense Plan was translated into Mandarin Chinese, Vietnamese, Korean, and Spanish. The translated versions of this plan were posted to FSIS’s Web site, and hard copies were made available at various meetings, workshops, and exhibitions in which FSIS participated. • FSIS will be revising its 5420 series of directives to incorporate changes made by DHS Homeland Security Advisory System. • FSIS delivered a presentation at the 2010 Food Safety Summit on its approach to pandemic preparedness. • Vulnerability Assessment Updates, including on Ground Beef, Hot Dogs, Liquid Eggs, and the Threat Agent List, were completed, and four VAs were updated. Countermeasures were identified in four categories: food defense plans, supply chains, operational security, and personnel training and supervision. • Three FERN exercises were conducted. The primary objectives of the exercise were to assess the FERN partner laboratories’ capabilities and compare them against the information listed in the LabDir tool. • The FSIS-Office of Public Health and Science’s discussion-based workshop, Threat Agent Incident

Table A-3: (Cont.)

Preparedness—Goals and Outcomes:	
Enhance the preparedness of the agriculture and food system by:	
<ol style="list-style-type: none"> 1. Conducting VAs; 2. Mitigating vulnerabilities; 3. Improving communication and training; 4. Developing and conducting exercises to test decontamination and disposal plans; 5. Developing modeling tools to improve event consequence assessment and decision support; and 6. Preparing risk communication tools and enhancing public awareness through outreach. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Homeland Security Presidential Directive (HSPD)-9 Vulnerability Assessments (USDA/FSIS and FDA) • If You See Something, Say Something Campaign (FA Sector) • Industry Adoption of Food Defense Plans • Information Dashboard Framework • Innovative Food Defense Program Grants • Integrated Food Safety System/Partnership for Food Protection • International and Domestic Food Transportation VAs • International Food Defense Workshops • International Food Protection Training Institute • Iowa Department of Agriculture and Land Stewardship Training • Iowa Veterinary Rapid Response Team Activities • Models to Improve U.S. Response to Outbreaks of Rift Valley Fever (FAZD) • Multi-Application Multiplex Platform Technology • National Animal Health Laboratory Network • National Bio and Agro-Defense Facility • National Center for Biomedical Research and Training • National Center for Food Protection and Defense Activities • National Environmental Health Association Activities • National Plant Diagnostic Network • National Plant Protection Laboratory Accreditation Program • North Carolina Department of Agriculture and Consumer Services Training and Exercises • NSLP Threat Agent Testing Program • PETNet • Regional Response Team Efforts • Research for Countermeasure Development (FDA) • Risk and Pathway Analysis (USDA/ APHIS/ Agricultural Marketing Service [AMS]/ ARS/Economic Research Service/Grain Inspection, Packers, and Stockyards Administration/Farm Service Agency [FSA]/NIFA) • Sampling and Analysis of Products at the Port of Entry • Security Plans for Warehouses and Elevators Storing Government-Owned Commodities (USDA/FSA) • SAADRA National Veterinary Stockpile 2010 Logistics Exercise • Small Scientific Conference Grants • Small/Very Small Plant Outreach • Tabletop Exercises for the National School Lunch Program (USDA/Food and Nutrition Service [FNS]) 	<p>Laboratory, is the first in a series of six workshops focusing on laboratory activation for incident response. Three exercises were conducted.</p> <ul style="list-style-type: none"> • Annual Federal Radiological Advisory Team Conference was held in March 2011. • Food Defense and Assessment Staff (FDAS) and the Office of Program Evaluation, Enforcement, and Review (OPEER) participated in the River Bend Nuclear Generating Station ingestion pathway exercise in Baton Rouge, Louisiana. • FDAS participated in the review of Federal Improvised Nuclear Devices 72-hour document on public messages and NA 42 briefing slides produced by the U.S. Department of Energy's National Atmospheric Release Advisory Center and the Advisory Team Standard Operating Procedures. • FDAS participated in two national-level radiological exercises—San Onofre Nuclear Generating Station and Eagle Horizon. • FDAS participated as a member of the Advisory Team after it was activated for the radiological incident after the Japan earthquake and tsunami. • In support of homeland security initiatives, the Farm Service Agency has implemented security plan requirements into U.S. Warehouse Act (USWA) licensing and Commodity Credit Corporation (CCC) commodity storage agreements. Warehouse operators entering into USWA licensing and CCC storage agreements agree to implement a facility security plan, conduct a facility VA, and establish procedures that address (1) general security of the physical structures and grounds of the warehouse, (2) shipping and receiving procedures to ensure that all agricultural products are not subject to tampering, (3) actions to be taken in the event of a national emergency, and (4) contact information for local security authorities. • USDA/APHIS, EPA, and National Renderers Association collaborated to evaluate risk of rendering infectious carcasses and developed protocols to mitigate excessive risk. • USDA/APHIS, DHS, and States collaborated to develop a permit system for biosecure interjurisdictional transport of infectious agricultural biomass. • The Center for Plant Health Science and Technology (CPHST) Risk Analysis developed risk analyses for high-impact diseases, including sweet orange scab (SOS) and citrus black spot; developed organism risk

Table A-3: (Cont.)

Preparedness—Goals and Outcomes:	
Enhance the preparedness of the agriculture and food system by:	
<ol style="list-style-type: none"> 1. Conducting VAs; 2. Mitigating vulnerabilities; 3. Improving communication and training; 4. Developing and conducting exercises to test decontamination and disposal plans; 5. Developing modeling tools to improve event consequence assessment and decision support; and 6. Preparing risk communication tools and enhancing public awareness through outreach. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Update of Legal and Illegal Imported Meat, Poultry, and Egg Products VAs • Updated Food Defense Guidelines for Transportation and Distribution • USDA/FSIS Directive 5420.3 VA Data Analysis • VA of Food Systems—Farm, Manufacturing, Retail, and Distribution 	<p>assessment for imminent threats; developed advanced forecasting models for plant epidemiology; and identified best management practices options for long- term production sustainability in citrus crop.</p> <ul style="list-style-type: none"> • Treatment Quality Assurance Unit reviewed quarantine treatment research for high-risk pests and developed protocols aimed at developing methyl bromide; and cold, hot water, vapor heat, and ozone treatment schedules for high-risk pests. It also started an initiative to develop new, less toxic alternatives to methyl bromide fumigation. • USDA/APHIS/CPHST developed a method to mitigate African fruit flies in citrus fruit. • USDA/APHIS/CPHST conducted methods development on a new plant agricultural pest screening tool. • USDA/APHIS/CPHST conducted methods development to decontaminate equipment. • USDA/APHIS/CPHST conducted methods development on disposal methods for intercepted agricultural material.

Table A-4: Detection

Detection—Goals and Outcomes:	
<p>Improve food and agriculture system detection capabilities by:</p> <ol style="list-style-type: none"> 1. Identifying contamination in food products at the earliest possible time; and 2. Conducting surveillance to prevent the spread of diseases. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Agriculture Screening Tools • Animal Health Network—A System to Alert Noncommercial Livestock Owners about Disease Outbreaks • Animal Health Sensing and Surveillance (II) • Best Practices for Companies in the Food Supply Chain: A Diagnostic Tool to Benchmark Practices for Food Defense • Center for Agriculture and Food Security and Preparedness • Center for Plant Health Science and Technology Programs (USDA/APHIS) • Center for Plant Health Science and Technology, Treatment Quality Assurance Unit Programs (USDA/APHIS) • Citrus Health Response Program (USDA/APHIS) • Consumer Complaint Monitoring System (USDA/FSIS) • Cooperative Agricultural Pest Survey Program (USDA/APHIS) • Create and Demonstrate a Secure Egg Supply “Component” to the National Center for Foreign Animal and Zoonotic Disease Defense Decision Support System • Customs and Border Protection • Development of a Common Operating Procedure for the National Biosurveillance Integration Center (FAZD/DHS) • Electronic Commodity Ordering System: Complaint System and Rapid Alert System (USDA/FNS) • EMA NCFPD Working Group Exploratory Survey • Evaluation of Immunogenicity of Rift Valley Fever Virus Candidate Vaccines • Extension Disaster Education Network (USDA/NIFA) • EDEN Strengthening Community Agrosecurity Planning Workshops • FDA Company-Specific VAs • Food and Agriculture Defense Sub-IPT Efforts • Food Contamination Detection Requirements Analysis • Food Defense Verification Tasks (USDA/FSIS) • Food Emergency Response Network • FoodNet • Foreign Animal Disease Modeling Project • Foreign Animal Disease Vaccine and Diagnostics Project • Global Foot-and-Mouth Disease Research Alliance • Highly Pathogenic Avian Influenza Prevention and Surveillance (USDA/APHIS) • Industry Adoption of Food Defense Plans • Innovative Food Defense Program Grants • Integrated Food Safety System/Partnership for Food Protection 	<ul style="list-style-type: none"> • A total of 392 complaints were submitted to the Electronic Commodity Ordering System (ECOS) complaint system, of which 184 were reported as food safety complaints. All complaints were reviewed and resolved. Four notifications were issued in the Rapid Alert System but only to the States that received the products. Three notifications were issued as a hold on the products which, after investigation, were released for use. One notification was a product recall. • Five organizations completed the EMA NCFPD Working Group Exploratory Survey, including three manufacturers, one consultant, and one food service organization (a restaurant). • USDA/FSIS conducted ~500,000 food defense verification and surveillance procedures in more than 5,400 slaughter and processing facilities in accordance with USDA/FSIS Directives 5420 series. • USDA/APHIS and State inspectors have been conducting delimitation surveys in several States to determine the presence of citrus greening, Asian citrus psyllid, citrus black spot, and SOS. • Citrus greening remains confined to six U.S. states and territories. It also is present in nine Mexican states. • Citrus canker remains confined only to the State of Florida. • During 2010, Asian citrus psyllid was detected in American Samoa and the Commonwealth of the Northern Mariana Islands. It also was found in three new counties in California, which resulted in expansion of the quarantine area. • In June 2010, USDA/APHIS published 7 CFR 301.76, establishing quarantines and other restrictions for citrus greening and Asian citrus psyllid. • SOS was detected in Texas, Louisiana, Mississippi, Arizona, and Florida. • The citrus black spot quarantine area has been expanded by Federal order. The disease remains confined to portions of Collier and Hendry counties in Florida. • USDA/APHIS prepared a pest risk analysis and risk management analysis evaluating the risks of moving citrus black spot and SOS on fresh citrus fruit. • A systems approach was developed for washing Kaffir lime and curry leaves to remove Asian citrus psyllid. • National surveillance methods and strategies were developed for dealing with Asian citrus psyllid. • Detection and delimitation survey methods were developed and delivered for SOS and citrus greening.

Table A-4: (Cont.)

Detection—Goals and Outcomes: Improve food and agriculture system detection capabilities by:	
1. Identifying contamination in food products at the earliest possible time; and 2. Conducting surveillance to prevent the spread of diseases.	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Integrated Pest Management Pest Information Platform for Extension and Education (USDA/NIFA) • Multi-Application Multiplex Platform Technology • National Animal Health Laboratory Network • National Animal Health Surveillance System • National Bio and Agro-Defense Facility • National Center for Biomedical Research and Training • National Center for Food Protection and Defense Activities • National Classical Swine Fever Surveillance (USDA/APHIS) • National Plant Diagnostic Network • Natural Antimicrobials to Mitigate Biological Threat Agents • NSLP Threat Agent Testing Program • Optical Detection of Microbial Contamination in Food Matrices • Offshore Pest Information Program (USDA/APHIS) • QuEChERS Technologies for Detection of Threat Agents to the Food Supply • Reportable Food Registry (FDA) • Research for Development of Detection Methods for Threat Agents in Foods (FDA) • Research to Determine Dose Response Relationships for Oral Ingestion of Threat Agents (FDA) • Research to Determine Threat Agent Characteristics in Foods (FDA) • Research to Develop Detection Methods for Biological and Chemical Agents in Foods (NCFPD) • Sampling and Analysis of Products at the Port of Entry • Universal Biodetection Array to Quickly Identify Multiple Pathogens (FAZD) • Updated Food Defense Guidelines for Transportation and Distribution • VA of Food Systems—Farm, Manufacturing, Retail, and Distribution 	<ul style="list-style-type: none"> • A survey and treatment strategy was developed and delivered for nursery stock from SOS-infested areas. • A water sampling protocol was developed and delivered to the <i>P. ramorum</i> National Program.

Table A-5: Emergency Response

Emergency Response—Goals and Outcomes:	
<p>Ensure an efficient response to agriculture and food emergencies by:</p> <ol style="list-style-type: none"> 1. Immediately investigating animal disease outbreaks and suspected food contamination; 2. Preventing additional human illnesses; 3. Organizing, training, and equipping animal, plant, and food emergency response teams of the Federal Government; and State, local, and tribal governments; 4. Designing, developing, and evaluating training and exercises carried out under agriculture and food defense plans; and 5. Ensuring consistent and organized risk communication to the public by the Federal Government; State, local, and tribal governments; and the private sector. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Agriculture Priorities and Allocation System • Animal Disease Outbreak Emergency Management Tools (USDA/APHIS) • Center for Agriculture and Food Security and Preparedness • Center for Plant Health Science and Technology, Treatment Quality Assurance Unit Programs (USDA/APHIS) • Continuity of Operations Level 4 Exercise (USDA/FSIS) • Depopulation, Disposal, and Decontamination Project • Emergency Management Response System Training • Emergency Support Function #11—AgEOC Operations Center Activation Exercise • Emerging Chemical Threat Research and Planning • Extension Disaster Education Network (USDA/NIFA) • EDEN Strengthening Community Agrosecurity Planning Workshops • Federal Radiological Advisory Team for Environment, Food, and Health • Food and Agriculture Defense Sub-IPT Efforts • Food and Agriculture Readiness Measurement (FARM) Toolkit • Food Emergency Response Network (FERN) • Food Emergency Response Plan Template version 2.0 • Food Protection Rapid Response Team and Program Infrastructure Improvement Prototype Project • FSIS Incident Management System • Global Foot-and-Mouth Disease Research Alliance • Industry Adoption of Food Defense Plans • Information Dashboard Framework • Innovative Food Defense Program Grant • Integrated Food Safety System/Partnership for Food Protection • Integrated Plant Health Information System (USDA/APHIS) • Iowa Department of Agriculture and Land Stewardship Training • Iowa Veterinary Rapid Response Team Activities • January 2011 Food Service Food Defense Workshop (FA Sector) • July 2010 Food Service Food Defense Exercise (FA Sector) 	<ul style="list-style-type: none"> • FSIS has completed an update of the FSIS Human Pandemic Operations Plan that incorporates lessons learned from the agency-wide Human Pandemic exercise held in September 2009. • An additional agency-wide Human Pandemic exercise was held by FSIS in October 2010. • FSIS developed and held a series of Webinars meant to educate the meat, poultry, and processed egg product industries on how they could prepare for a human pandemic and better understand FSIS's approach to human pandemic planning. • USDA/FSA has completed a regulation (now in the Office of Management and Budget Clearance) that will be the guiding document for the Department's Agricultural Priorities and Allocation System (APAS). Under APAS, USDA will be able to place priorities for contracts that are needed to support emergency response for food and food resources.

Table A-5: (Cont.)

Emergency Response—Goals and Outcomes:	
Ensure an efficient response to agriculture and food emergencies by:	
<ol style="list-style-type: none"> 1. Immediately investigating animal disease outbreaks and suspected food contamination; 2. Preventing additional human illnesses; 3. Organizing, training, and equipping animal, plant, and food emergency response teams of the Federal Government; and State, local, and tribal governments; 4. Designing, developing, and evaluating training and exercises carried out under agriculture and food defense plans; and 5. Ensuring consistent and organized risk communication to the public by the Federal Government; State, local, and tribal governments; and the private sector. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Models to Improve U.S. Response to Outbreaks of Rift Valley Fever (FAZD) • National Animal Health Laboratory Network • National Bio and Agro-Defense Facility • National Center for Biomedical Research and Training • National Center for Food Protection and Defense Activities • National Plant Diagnostic Network • National Veterinary Stockpile • North Carolina Department of Agriculture and Consumer Services Training and Exercises • NSLP Threat Agent Testing Program • Rapid Response Teams • Reportable Food Registry (FDA) • Sampling and Analysis of Products at the Port of Entry • Updated Food Defense Guidelines for Transportation and Distribution • VA of Food Systems—Farm, Manufacturing, Retail, and Distribution 	

Table A-6: Recovery

Recovery—Goals and Outcomes:	
Secure agriculture and food production after an agriculture or food emergency by:	
<ol style="list-style-type: none"> 1. Working with the private sector to develop business recovery plans to rapidly resume agriculture, food production, and international trade; 2. Conducting exercises of emergency response plans with the goal of enhancing long-term recovery results; 3. Rapidly removing and effectively disposing of contaminated agriculture and food products and infected plants and animals; and 4. Decontaminating and restoring areas affected by an agriculture or food emergency. 	
Projects	Selected 2010/2011 Accomplishments
<ul style="list-style-type: none"> • Agriculture Priorities and Allocation System • Commodity Operations Emergency Response Handbook • Create and Demonstrate a Secure Egg Supply “Component” to the National Center for Foreign Animal and Zoonotic Disease Defense Decision Support System • Depopulation, Disposal, and Decontamination Project • Emerging Chemical Threat Research and Planning • Enhance Depopulation, Decontamination, and Disposal Recovery Systems • Extension Disaster Education Network (USDA/NIFA) • EDEN Strengthening Community Agrosecurity Planning Workshops • FDA Company-Specific VAs • Federal Radiological Advisory Team for Environment, Food, and Health • Food and Agriculture Readiness Measurement (FARM) Toolkit • Food Emergency Response Network (FERN) • Food Safety and Inspection Service Exercise Program—Federal Radiological Advisory Team for Environment, Food, and Health • Global Foot-and-Mouth Disease Research Alliance • Industry Adoption of Food Defense Plans • Models to Improve U.S. Response to Outbreaks of Rift Valley Fever (FAZD) • National Animal Health Laboratory Network • National Bio and Agro-Defense Facility • National Plant Diagnostic Network • National Plant Disease Recovery System • NSLP Threat Agent Testing Program • Southern Agriculture and Animal Disaster Response Alliance (SAADRA) National Veterinary Stockpile 2010 Logistics Exercise • Updated Food Defense Guidelines for Transportation and Distribution • VA of Food Systems—Farm, Manufacturing, Retail, and Distribution 	<ul style="list-style-type: none"> • A total of 22 company-specific VAs using the manufacturing, agriculture, and retail/foodservice software were conducted to identify vulnerable points in the food supply, appropriate mitigation strategies, and future research needs for FDA. • USDA/APHIS, EPA, and National Renderers Association collaborated to evaluate risk of rendering infectious carcasses and developed protocols to mitigate excessive risk. • USDA/APHIS, DHS, and States collaborated to develop a permit system for biosecure interjurisdictional transport of infectious agricultural biomass. • USDA/APHIS and CFIA collaborated on cold weather decontamination protocols.

List of Abbreviations/Acronyms/Initializations

AFDO	Association of Food and Drug Officials
ALERT	Assure, Look, Employees, Reports, Threat
APAS	Agricultural Priorities and Allocation System
APHIS	Animal Plant and Health Inspection Service
ARS	Agricultural Research Service
CCC	Commodity Credit Corporation
COOP	Continuity of Operations
CPHST	Center for Plant Health Science and Technology
CVM	Center for Veterinary Medicine
DHS	Department of Homeland Security
ECOS	Electronic Commodity Ordering System
EDEN	Extension Disaster Education Network
EMA	Economically Motivated Adulteration
EMC	Emergency Management Center
EPA	Environmental Protection Agency
FA	Food & Agriculture
FARM	Food and Agriculture Readiness Measurement
FASCAT	Food and Agriculture Sector Criticality Assessment Tool
FASCC	FA Sector Coordinating Council
FASGCC	FA Sector Government Coordinating Council
FAZD	National Center for Foreign Animal and Zoonotic Disease Defense
FBI	Federal Bureau of Investigation
FDA	U.S. Food and Drug Administration
FDAS	Food Defense and Assessment Staff
FERN	Food Emergency Response Network
FERP	Food Emergency Response Plan
FNS	Food and Nutrition Service
FSIS	Food Safety and Inspection Service
HSIN-FA	Homeland Security Information Network-Food & Agriculture
IDCA	Infrastructure Data Collection Application
ISE	Information Sharing Environment
MSP	Multi-State Partnership for Security in Agriculture
NAHLN	National Animal Health Laboratory Network

NCFPD	National Center for Food Protection and Defense
NIFA	National Institute of Food and Agriculture
NSLP	National School Lunch Program
OOEET	Office of Outreach, Employee Education, and Training
OPEER	Office of Program Evaluation, Enforcement, and Review
PDN	National Plant Diagnostic Network,
SAADRA	Southern Agriculture and Animal Disaster Response Alliance
TTX	Tabletop Exercise
USDA	U.S. Department of Agriculture
USWA	U.S. Warehouse Act
VAs	Vulnerability Assessments

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