

Agricultural Biosecurity

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Agricultural Biosecurity

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
211	Insects, Mites, and Other Arthropods Affecting Plants	10%		5%	
212	Pathogens and Nematodes Affecting Plants	25%		60%	
213	Weeds Affecting Plants	5%		5%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins	20%		20%	
903	Communication, Education, and Information Delivery	40%		10%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.0	0.0	2.0	0.0
Actual	2.0	0.0	1.0	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c 79500	1890 Extension 0	Hatch 86041	Evans-Allen 0
1862 Matching 79500	1890 Matching 0	1862 Matching 86041	1890 Matching 0
1862 All Other 100000	1890 All Other 0	1862 All Other 695489	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

*Establish the **Oklahoma Center for Agricultural Microbial Forensics and Biosecurity**, a multi-disciplinary unit to support and address issues of crop and food biosecurity, and their impacts

*Host a **Workshop on Plant Pathogen Forensics** to shape the emerging new discipline of plant pathogen forensics and to define a role for OSU and Oklahoma in that discipline.

*Conduct **scientific research** targeted specifically towards plant pathogen forensics, sociological impacts of terrorism, and other areas of agricultural biosecurity

***Develop an academic "track"** for students seeking M.S. or Ph.D. degrees in established programs such as Plant Pathology, Biochemistry, Plant Sciences or Forensic Sciences, who seek plant pathogen forensics

Offer a short course on microbial forensics to prepare State educators, diagnosticians, researchers, extension agents, students and postdocs, producers and first detectors/responders

Develop an **undergraduate course in Agricultural Biosecurity**

2. Brief description of the target audience

- Key members of National and Oklahoma homeland security community (DHS, FBI, CIA, etc)
- Key members of National and Oklahoma agricultural leaders and representatives
- Oklahoma extension personnel
- Master gardeners
- Oklahoma producers and crop consultants
- OSU students and faculty
- Professional/scientific societies
- Key industries
- The public

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	100	200	0	0
2008	472	17000	0	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year	Target
Plan:	0
2008:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	0	5	5

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of OSU faculty and staff affiliated with the new Oklahoma Center for Agricultural Microbial Forensics Biosecurity

Year	Target	Actual
2008	7	8

Output #2

Output Measure

Workshops to develop the discipline of plant pathogen forensics, train "first responders", and state and national stakeholders

Year	Target	Actual
2008	1	1

Output #3

Output Measure

Number of grant/contract proposals submitted in agricultural microbial forensics and biosecurity

Year	Target	Actual
2008	1	11

Output #4

Output Measure

Number of journal articles submitted with emphasis on agricultural microbial forensics and biosecurity

Year	Target	Actual
2008	2	6

V(G). State Defined Outcomes

O No.	Outcome Name
1	Establishment of the Oklahoma Center for Agricultural Microbial Forensics and Biosecurity
2	Number of invitations to agricultural biosecurity team members for participation in initiatives, programs, presentations, and consultations related to agricultural biosecurity and microbial forensics
3	Number of forensics-relevant journal articles published
4	Percentage of agricultural producers, handlers and processors employing at least one new (to them) practice to enhance biosecurity

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Natural Disasters (drought, weather extremes, etc.)

Economy

Appropriations changes

Public Policy changes

Government Regulations

Competing Public priorities

Other (exotic pathogens, terrorism)

Brief Explanation

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

During (during program)

Time series (multiple points before and after program)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}