

V(A). Planned Program (Summary)

Program # 10

1. Name of the Planned Program

Global Food Security and Hunger

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
205	Plant Management Systems	60%	60%	60%	
307	Animal Management Systems	40%	40%	40%	
	Total	100%	100%	100%	

V(C). Planned Program (Inputs)

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

Year: 2010	Extension		Research	
	1862	1890	1862	1890
Actual	25.0	2.0	32.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
250000	25000	200000	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
250000	25000	200000	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Conducting discovery research on plants and plant systems using tools genomics, metabolomics, and proteomics;
- Developing improved crop varieties using traditional and genomic approaches;

- Introduction/discovery of new plants for food use and the green industry;
- Developing systems for production of plants for biofuels;
- Seeking new uses for plants and plant byproducts;
- Developing production systems for organic farmers;
- Developing diagnostic techniques for indigenous and introduced pathogens; Partnering with industry;
- Developing sustainable production systems for both large scale and limited resource farmers;
- Enhancing IPM programs through new techniques and strategies;
- Setting up applied research/demonstration plots;
- Writing papers for the scientific community;
- Preparing publications for grower and homeowner audiences;
- Developing Web sites to deliver information to grower and homeowner audiences; and
 - Conducting workshops, meetings, and other focused educational programs for farmers, commodity groups, and industry.

2. Brief description of the target audience

Target audiences included the scientific community, regulatory agencies, agricultural chemical companies, agribusiness, commercial and limited resource farmers, new and part-time farmers, homeowners, consultants, news media, general public, non-governmental organizations, and other public agency staff.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	{NO DATA}	{NO DATA}	{NO DATA}	{NO DATA}
Actual	420	4200	1460	5600

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

Patent Applications Submitted

Year: 2010

Plan:

Actual: 3

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Actual	12	32	44

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Programs directed toward minimizing food systems disruptions

Year	Target	Actual
2010	{No Data Entered}	25

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	Number of programs on potential food system disruptions

Outcome #1

1. Outcome Measures

Number of programs on potential food system disruptions

2. Associated Institution Types

- 1862 Extension
- 1890 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	{No Data Entered}	10

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

A safe and reliable supply of food is essential.

What has been done

Extension programs are focused on minimizing disruptions to the food system.

Results

About 250 participants have learned about potential threats to the food system.

4. Associated Knowledge Areas

KA Code	Knowledge Area
205	Plant Management Systems
307	Animal Management Systems

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
- Competing Programmatic Challenges

Brief Explanation

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

1. Evaluation Studies Planned

- Retrospective (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals, group, organizations) and non-participants

Evaluation Results

Key Items of Evaluation