

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Global Food Security and Hunger: Other Idaho Commercial Crops

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	0%		6%	
111	Conservation and Efficient Use of Water	10%		6%	
204	Plant Product Quality and Utility (Preharvest)	1%		12%	
205	Plant Management Systems	1%		10%	
211	Insects, Mites, and Other Arthropods Affecting Plants	14%		12%	
212	Pathogens and Nematodes Affecting Plants	14%		12%	
213	Weeds Affecting Plants	0%		3%	
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	0%		6%	
215	Biological Control of Pests Affecting Plants	14%		6%	
216	Integrated Pest Management Systems	40%		6%	
403	Waste Disposal, Recycling, and Reuse	1%		0%	
404	Instrumentation and Control Systems	4%		6%	
405	Drainage and Irrigation Systems and Facilities	0%		3%	
511	New and Improved Non-Food Products and Processes	0%		6%	
711	Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources	1%		6%	
	Total	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
Plan	5.0	0.0	8.0	0.0
Actual	2.2	0.0	6.5	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
152548	0	262555	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
152548	0	262555	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
25568	0	1948786	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Global Food Security and Hunger: Other Idaho commercial crops team is made up of seven faculty members contributing a total of 2.2 FTEs to this project. Team members generated \$155,603 in external grant support and made 1,806 direct teaching contacts. Team members produced two peer-reviewed Extension publications. The Team has three major areas of focus:

- Pest management
- Production and economics
- Education and outreach

Team members are engaged in a variety of integrated projects, many of which focus on integrated pest management for minor crops, including the Idaho OnePlan and the multi-state IR-4 project for minor crop pesticides that is critical for economical and efficient production of many Idaho crops. This program also covers research and extension activities targeting onions, hops, dry beans, pulse crops, alfalfa seed and other seed crops.

2. Brief description of the target audience

Growers of minor crops in Idaho, Oregon, and the Western U.S., EPA, USDA, ISDA and other western departments of agriculture, farm workers, crop advisors, chemical company representatives.

V(E). Planned Program (Outputs)

1. Standard output measures

2010	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Plan	6230	55125	0	0
Actual	1798	21704	8	0

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

Patent Applications Submitted

Year: 2010
 Plan: 0
 Actual: 2

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2010	Extension	Research	Total
Plan	2	8	
Actual	2	21	23

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Professional invited presentations.

Year	Target	Actual
2010	6	1

Output #2

Output Measure

- Professional submitted presentations.

Year	Target	Actual
2010	15	2

Output #3

Output Measure

- Workshops, field tours, demonstration projects and presentations.

Year	Target	Actual
2010	90	31

Output #4

Output Measure

- Extension peer-reviewed Publications (CIS, Bulletins, PNW).

Year	Target	Actual
2010	9	2

Output #5

Output Measure

- Other Professional Publications.

Year	Target	Actual
2010	15	4

Output #6

Output Measure

- Applied and basic laboratory and field research experiments.

Year	Target	Actual
2010	45	17

Output #7

Output Measure

- Refereed journal articles

Year	Target	Actual
2010	10	0

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	O: Producers are aware of issues and knowledgeable of practices that affect the environmental and economic sustainability of minor crop production. I: Percent of knowledge increase demonstrated by participants in programs.
2	O: Growers use best practices in the production of minor crops. I: Percent of Idaho growers indicating adoption of recommended practices (followup survey data).
3	O: An increase in the number of trained graduate students prepared to enter the workforce. I: Number of M.S. and Ph.D. candidates relevant to this topic team.

Outcome #1

1. Outcome Measures

O: Producers are aware of issues and knowledgeable of practices that affect the environmental and economic sustainability of minor crop production. I: Percent of knowledge increase demonstrated by participants in programs.

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

O: Growers use best practices in the production of minor crops. I: Percent of Idaho growers indicating adoption of recommended practices (followup survey data).

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	20	265

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

In order for growers to maintain labels for chemicals, and to minimize the risk of resistance they need to use them properly and judiciously.

What has been done

Information about pest outbreaks and research based control information was disseminated through the PNWPestAlert.net website.

Results

In the 2009 evaluation for the PNWPestAlert.net website, 40% of survey respondents reported that as a result of information received through the website, they increased their field scouting to document pest levels before taking actions to control the pest.

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water

204	Plant Product Quality and Utility (Preharvest)
205	Plant Management Systems
216	Integrated Pest Management Systems
404	Instrumentation and Control Systems

Outcome #3

1. Outcome Measures

O: An increase in the number of trained graduate students prepared to enter the workforce. I: Number of M.S. and Ph.D. candidates relevant to this topic team.

2. Associated Institution Types

- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Quantitative Target	Actual
2010	1	2

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
111	Conservation and Efficient Use of Water
204	Plant Product Quality and Utility (Preharvest)
205	Plant Management Systems
211	Insects, Mites, and Other Arthropods Affecting Plants
212	Pathogens and Nematodes Affecting Plants
215	Biological Control of Pests Affecting Plants
216	Integrated Pest Management Systems
403	Waste Disposal, Recycling, and Reuse
404	Instrumentation and Control Systems

711

Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Government Regulations

Brief Explanation

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

1. Evaluation Studies Planned

- After Only (post program)

Evaluation Results

In the 2009 evaluation for the PNWPestAlert.net website, 40% of survey respondents reported that as a result of information received through the website, they increased their field scouting to document pest levels before taking actions to control the pest.

Key Items of Evaluation