

V(A). Planned Program (Summary)

Program # 13

1. Name of the Planned Program

Global Food Security and Hunger: Small Acreages and Emerging Specialty Crops

Reporting on this Program

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	15%		15%	
111	Conservation and Efficient Use of Water	10%		15%	
202	Plant Genetic Resources	5%		20%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	0%		20%	
204	Plant Product Quality and Utility (Preharvest)	0%		15%	
205	Plant Management Systems	20%		15%	
212	Pathogens and Nematodes Affecting Plants	20%		0%	
602	Business Management, Finance, and Taxation	10%		0%	
604	Marketing and Distribution Practices	20%		0%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2013	Extension		Research	
	1862	1890	1862	1890
Plan	3.2	0.0	1.0	0.0
Actual Paid Professional	3.1	0.0	1.7	0.0
Actual Volunteer	0.0	0.0	0.0	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
66048	0	33310	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
66048	0	33310	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
89434	0	930242	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Small Acreages and Emerging Specialty Crops team delivered intensive educational programs that focus on sustainable use of lands and natural resources, including the 8-week "Living on the Land" course (delivered in two counties) and a 6-week version adapted to meet stakeholder needs and delivered in the Magic Valley. Elements of the "Cultivating Success" course were incorporated into a variety of programs including programs about starting and planning your business, food safety regulations, and rapid market assessment aimed at farmers' market vendors and producers. Other educational events for small acreage farmers and ranchers were delivered through several conferences and as individual workshops covering topics such as sustainable animal and vegetable production workshops, permaculture, and producer-chef connections.

There is growing interface among our small farms, horticulture, and nutrition education teams to deliver programs that intersect local food systems, community vitality and nutrition and health. UI faculty members worked with three community advocates from three regions within the State (and including adjacent state partners) to evaluate food systems and investigate potentials for food hubs. Others worked with their communities to invest in local food systems as a way to help end hunger and food insecurity.

Efforts to deliver education about farm business planning continued through an online course: Planning for Profit II. Faculty organized a number of events which focused on Farmers Markets, direct marketing opportunities, opportunities for enterprise development, and agri-tourism. The team delivered educational messages through numerous media including websites (and an on-line course offering), Extension publications and a small farms newsletter.

2. Brief description of the target audience

Target Audiences

Established and prospective small-acreage, specialty crop producers, processors, and marketers. Small acreage landowners who desired to learn how to manage their land in a sustainable manner to protect natural resources.

Underserved Audiences

Provide resources for people with small acreages who wish to start, continue, or expand specialty horticultural enterprises. Women farmers and limited resource farmers are often in this group. There is also the potential to reach Hispanic and Asian farming audiences.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

2013	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	5398	77513	383	231

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

Patent Applications Submitted

Year: 2013

Actual: 1

Patents listed

201300085 "Durola" Rape, University of Idaho

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2013	Extension	Research	Total
Actual	3	7	10

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Small Farms / Marketing Conference

Year	Actual
2013	1

Output #2

Output Measure

- Small Acreage Farming Course.

Year	Actual
2013	0

Output #3

Output Measure

- Small Acreage Business Planning / Entrepreneurship Course.

Year	Actual
2013	0

Output #4

Output Measure

- Land Stewardship course.

Year	Actual
2013	2

Output #5

Output Measure

- Tours, Demonstrations and Field Days

Year	Actual
2013	7

Output #6

Output Measure

- Farmers Market workshop with ISDA

Year	Actual
2013	1

Output #7

Output Measure

- Workshops and Shortcourses

Year	Actual
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2013

19

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	O: Producers and landowners increase their knowledge about natural resource management, sustainable farm production, marketing and/or business management principles and practices. I: Number of participants completing workshops, farm tours, short courses or in-depth courses such as Living on the Land, Stewardship of Small Acreages, Sustainable Small Acreage Farming or Agricultural Entrepreneurship.
2	O: Producers and landowners adopt recommended land management and production practices as a direct result of participating in University of Idaho Extension programming. I: Number of documented best management practices adopted by landowners and producers after participating in educational programming or receiving instructional resources.
3	O: Producers and Small Acreage Landowners who have participated in Extension programs serve as motivating community leaders and models for sustainable practices and small farm enterprise success. I: Number of past program participants who volunteer to teach classes or workshops, host tours of their properties, or act as formal and informal mentors to new program participants.
4	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.
5	More privately owned land in Idaho is being managed to reduce negative environmental impacts and conserve natural resources. Indicator: Number of acres managed by participants in Extension small acreage programming.
6	Small acreage producers start or maintain a sustainable business enterprises that contribute to local food systems as a result of participating in University of Idaho Extension programming. Indicator: Number of course graduates and program participants actively marketing their farm products at farmers markets, through CSAs or other direct or semi-direct marketing channels.

Outcome #1

1. Outcome Measures

O: Producers and landowners increase their knowledge about natural resource management, sustainable farm production, marketing and/or business management principles and practices. I: Number of participants completing workshops, farm tours, short courses or in-depth courses such as Living on the Land, Stewardship of Small Acreages, Sustainable Small Acreage Farming or Agricultural Entrepreneurship.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	612

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Small acreage producers who are trying to be more sustainable production and farm business strategies need accurate information and guidance on best management practices.

What has been done

Sixteen workshops, field days, and the Living on the Land course were delivered for small farm owners. Topics ranged from pruning tree fruit and vineyards to biocontrol of noxious weeds; some programs quite specialized while others focused on a holistic approach to sustainable management.

Results

Over 95% of participants at the Sustainable Livestock Production workshop reported an increase of knowledge about sustainability in practice, pasture management, sustainable animal husbandry, animal behavior and handling, livestock processing options and marketing. Over 97% of attendees surveyed at the Sustainable Vegetable Production workshop indicated their knowledge increased on the following topics: Appropriate cover crops for our area, sustainable pest management strategies and equipment/tools for small acreage farms. Over 86% reported increased knowledge on the importance of organic matter to soils and how to build quality soils.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships

111	Conservation and Efficient Use of Water
205	Plant Management Systems
212	Pathogens and Nematodes Affecting Plants
604	Marketing and Distribution Practices

Outcome #2

1. Outcome Measures

O: Producers and landowners adopt recommended land management and production practices as a direct result of participating in University of Idaho Extension programming. I: Number of documented best management practices adopted by landowners and producers after participating in educational programming or receiving instructional resources.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)
{No Data Entered}

What has been done
{No Data Entered}

Results
{No Data Entered}

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
111	Conservation and Efficient Use of Water
202	Plant Genetic Resources
205	Plant Management Systems

212 Pathogens and Nematodes Affecting Plants

Outcome #3

1. Outcome Measures

O: Producers and Small Acreage Landowners who have participated in Extension programs serve as motivating community leaders and models for sustainable practices and small farm enterprise success. I: Number of past program participants who volunteer to teach classes or workshops, host tours of their properties, or act as formal and informal mentors to new program participants.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	6

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Our classes focus on teaching people to protect their natural resources and run successful small farm businesses. Having students who implement those practices and are able to demonstrate/share what they learned to new/beginning farmers is one positive indicator of success.

What has been done

Past participants of Sustainable Small Acreage Farming and Ranching and Living on the Land programs have returned to teach classes or host workshops/tours explaining or demonstrating adoption of sustainable practices in their operations in Idaho in 2013.

Results

Class participants rated returning graduates presentations and tours as "valuable" to "very valuable" in helping them to achieve their goals. Newer graduates continue to have contact with some of the farmer mentors, which encourages peer-to-peer learning. The individuals who returned to teach and host have also reported increased traffic at their market booths/farm businesses as a result of their increased visibility through participation in our classes.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
202	Plant Genetic Resources

205	Plant Management Systems
212	Pathogens and Nematodes Affecting Plants

Outcome #4

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	Actual
2013	0

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

For this planned program and reporting cycle, there were no advanced degrees completed.

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
202	Plant Genetic Resources
205	Plant Management Systems
212	Pathogens and Nematodes Affecting Plants

Outcome #5

1. Outcome Measures

More privately owned land in Idaho is being managed to reduce negative environmental impacts and conserve natural resources. Indicator: Number of acres managed by participants in Extension small acreage programming.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	16418

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Sustainable and productive land is necessary to increase profitability, food production and value.

What has been done

An 8 week LOTL course was delivered to 18 participants in Gem County who owned and operated a total of 75 acres of land. Topics pertaining to soil, water, waste management, weed control, animal health, garden marketing, and rodent pest control were taught.

Results

After completing the class, the educator conducted site visits at each alumni's home to determine best management practices. Since the 18 participants completed the class there had been a total of 89 Best Management practices adopted on their properties.

4. Associated Knowledge Areas

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
111	Conservation and Efficient Use of Water
202	Plant Genetic Resources
205	Plant Management Systems
212	Pathogens and Nematodes Affecting Plants

Outcome #6

1. Outcome Measures

Small acreage producers start or maintain a sustainable business enterprises that contribute to local food systems as a result of participating in University of Idaho Extension programming.
Indicator: Number of course graduates and program participants actively marketing their farm products at farmers markets, through CSAs or other direct or semi-direct marketing channels.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2013	17

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Empowering individuals and families to create sustainable farm-based enterprises is an important goal of all our programs. These businesses contribute to the local economy and to food security in our communities.

What has been done

Through conversations and follow up interviews with past program participants, visits to the local Farmers' Markets and farm stands, we are able to identify numerous graduates of our programs who start or sustain small acreage farm-based businesses.

Results

At least 17 recent graduates of our previous Living on the Land and Cultivating Success classes are actively marketing farm products through area Farmers' Markets, Community Supported Agriculture Programs or direct to restaurants, schools or other marketing channels.

4. Associated Knowledge Areas

KA Code	Knowledge Area
602	Business Management, Finance, and Taxation
604	Marketing and Distribution Practices

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Competing Public priorities
- Populations changes (immigration, new cultural groupings, etc.)

Brief Explanation

{No Data Entered}

V(I). Planned Program (Evaluation Studies)

Evaluation Results

A retrospective evaluation was given to participants after completing the sustainable small farms class. The evaluation showed significant knowledge gained and improvements in knowledge, preparedness, understanding skills, and the ability to implement best management practices on their small acreage. Participants also gained knowledge in networking to gain additional resources and tips on working with agency partners. The site visits conducted after six months after class, indicated several best management practices being implemented as well as beginning a small business.

Key Items of Evaluation

Our small acreage and specialty crop programs have a proven track record for helping jump start new small farm enterprises in the Treasure Valley. At the Nampa Farmer's Market in 2013, at least three regular vendors are graduates of our programs. At least a dozen others are engaged in selling their farm products through Cooperatives, CSAs, Farm Markets, on farm stands and a number of other direct marketing strategies.