

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	20%		25%	
111	Conservation and Efficient Use of Water	10%		25%	
202	Plant Genetic Resources	20%		20%	
205	Plant Management Systems	20%		25%	
212	Pathogens and Nematodes Affecting Plants	20%		5%	
604	Marketing and Distribution Practices	10%		0%	
	Total	100%		100%	

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

Year: 2012	Extension		Research	
	1862	1890	1862	1890
Plan	2.8	0.0	1.3	0.0
Actual Paid Professional	3.4	0.0	1.1	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
110465	0	49003	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
110465	0	49003	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
86150	0	525366	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Small Acreages and Emerging Specialty Crops team continued to deliver intensive educational programs that focus on sustainable use of lands and natural resources, including the 15-week "Living on the Land" and "Cultivating Success" courses delivered in multiple locations across the State. Other educational events for small acreage farmers and ranchers were delivered through several conferences and as individual workshops covering topics such as fruit production, weed identification and pesticide certification training, soil health, food safety and marketing of local fruits and vegetables. There is growing interface among our small farms, horticulture, and nutrition education teams to deliver programs that connect the farm to the plate to overall health.

Efforts to deliver education about farm business planning grew to include 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

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	5609	94352	327	135

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

Patent Applications Submitted

Year: 2012
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

2012	Extension	Research	Total
Actual	0	6	6

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Small Farms Conference in northern Idaho.

Year	Actual
2012	1

Output #2

Output Measure

- Small Acreage Farming Course.

Year	Actual
2012	1

Output #3

Output Measure

- Ag Entrepreneurship/business planning Course.

Year	Actual
2012	2

Output #4

Output Measure

- Living on the Land course.

Year	Actual
2012	2

Output #5

Output Measure

- Living on the Land Tour.

Year	Actual
2012	2

Output #6

Output Measure

- Eastern Idaho/NE Utah Ag Diversity conference

Year	Actual
2012	0

Output #7

Output Measure

- Farmers Market workshop with ISDA

Year	Actual
2012	5

Output #8

Output Measure

- five-year LOTL report

Year	Actual
2012	0

Output #9

Output Measure

- Pasture management/livestock management workshop

Year	Actual
2012	3

Output #10

Output Measure

- Specialty crops workshops

Year	Actual
2012	1

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	O: Producers and landowners gain 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, production and/or marketing practices due to University of Idaho extension programming. I: Number of producers indicating they did (or intend to) adopt recommended land management, production and/or marketing practices after attending an educational class, workshop, one-on-one contact or reading UI information.
3	O: Landowners and farmers achieve success in protecting their natural resources and/or maintaining a successful business. I: Number of past class participants who volunteer to host tours of their farm or speak to new students in classes, workshops or at conferences.
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.

Outcome #1

1. Outcome Measures

O: Producers and landowners gain 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
2012	314

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Growers and land owners who are trying to be more sustainable by protecting their natural resources and producers operating viable farm businesses need accurate information and guidance on implementing best practices.

What has been done

Offer 3 part Diggin Deeper Series in Lewiston attended by an average of 20 farmers and ag professionals each night. Offered a 9 week online Small Farm Advanced business planning called Planning for Profit II to 31 people statewide. Offered a 2 day marketing and agritourism conference with ISDA in Moscow attended by over 50 farmers and ranchers.

Results

Digging Deeper Series evaluations show that approximately 90% increased their knowledge about various aspects of cover crop benefits to soil quality, fencing and paddock desing for rotational grazing and carbon and Nitrogen cycling in the soil. Planning for Profit course: Evaluations indicate that 100% of attendees increased their knowledge on how to: 1) monitor and evaluate their farm financial plan, 2) evaluate the potential of direct markets, and 3) assess the feasibility of a new farm enterprise. Marketing/Agritourism workshop:Level of knowledge increase was indicated on a 1-5 scale (with 5 being highest). 1) Identifying an appropriate agritourism enterprise = 4.47; 2) minimizing risks associated with agritourism = 4.2; 3) How food hubs and online marketing cooperatives work = 4.67; and 4) potential opportunities through online marketing = 4.58.

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 #2

1. Outcome Measures

O: Producers and landowners adopt recommended land management, production and/or marketing practices due to University of Idaho extension programming. I: Number of producers indicating they did (or intend to) adopt recommended land management, production and/or marketing practices after attending an educational class, workshop, one-on one contact or reading UI information.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	175

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Small acreage management consists of many different practices, Many of the new/newer landowners in the Treasure Valley do not come from an ag background and do not have the prior experience with these practices

What has been done

Numerous best management practices (BMP) are covered during the 15 week LOTL course. 3-5 months following the class an offer for an extension educator to come for a site visit is made to all participants. It is not required for alumni to have a site visit done on their property.

Results

From the 2012 Caldwell-LOTL class, 5 of the 14 units that completed the class requested to have a site visit. During these site visits 38 BMP had already or were in the process of being adopted with and addition 14 more planned for the future. Weed & Pest management tied as the number 1 BMP implemented, followed by septic system management, and a ties for 3rd with improved fertilization and irrigation systems.

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 #3

1. Outcome Measures

O: Landowners and farmers achieve success in protecting their natural resources and/or maintaining a successful business. I: Number of past class participants who volunteer to host tours of their farm or speak to new students in classes, workshops or at conferences.

2. Associated Institution Types

- 1862 Extension

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	18

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Increasing Best Management practices and building sustainable land use help enhance the environment, help communities thrive financially in building small-farm enterprises, and provide educational information to new participants who take the LOTL class.

What has been done

Alumni who have actively enhanced their small-acreage are invited to give presentations, host tours, and participate in additional classes to help motivate and educate current participants. Each year we hold an LOTL tour at a LOTL Alumni's house to show how land management goals can be reached.

Results

Eighteen LOTL alumni came to classes and tours to present on new topics that were incorporated into the LOTL class. Evaluations have shown that LOTL participants gain "a great deal" of knowledge in the weed management section. We have also received additional inquiries on LOTL alumni researching their water rights and irrigation practices.

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
2012	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
202	Plant Genetic Resources
205	Plant Management Systems

212 Pathogens and Nematodes Affecting Plants

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Populations changes (immigration, new cultural groupings, etc.)
- Other (growing interest in local food entrepreneurship)

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Our Lining on the Land class retrospective evaluation showed large improvement in participants' knowledge, preparedness, understanding and skills in land stewardship and best management practices. Large improvement was also seen in participants' ability to find resources to support their small acreages. Site visits following the class show that class members are implementing the BMP's they have learned about in class.

We had at least two families move their garden or proposed garden site after learning they were planting on the leach field of their septic system. Planting edible plants in the leach field is not recommended because of an increased risk of illness due to food poisoning because of bacteria & virus in human waste. We also had one family start a gopher control business as a result of the class.

Key Items of Evaluation