

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Global Food Security and Hunger: Dairy

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
301	Reproductive Performance of Animals	20%		20%	
302	Nutrient Utilization in Animals	20%		30%	
305	Animal Physiological Processes	20%		20%	
307	Animal Management Systems	20%		20%	
308	Improved Animal Products (Before Harvest)	0%		5%	
311	Animal Diseases	20%		5%	
	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	2.3	0.0	3.0	0.0
Actual Paid Professional	3.5	0.0	0.0	0.0
Actual Volunteer	0.0	0.0	1.8	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
56987	0	106564	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
56987	0	106564	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
267402	0	639530	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The Dairy team continued to focus on training for dairy workers, in classrooms and on dairies. New programs included a certification course for milkers (including certification in Spanish) and a series of workshops for middle-managers. Artificial insemination schools were delivered in Spanish and English.

Projects with local dairies included the Treasure Valley Dairy Replacement Heifer project and a number of 4-H and FFA dairy projects. A dairy school was presented in SE Idaho, and consultations with dairy producers were conducted throughout the dairy-producing region of the state.

The Dairy team was engaged in multi-state activity by a chairing committee and submitting fact sheets to the DAIReXNET website.

2. Brief description of the target audience

The target audiences most likely to participate in and benefit from dairy extension programs are: dairy producers, dairy workers, and allied industry. These audiences will participate by serving on planning committees, attending workshops/schools, meeting one-on-one with topic team members, reading extension publications, and participating in on-farm projects.

3. How was eXtension used?

the dairy team contributes to DAIReXNET and uses those resources for their programs.

V(E). Planned Program (Outputs)

1. Standard output measures

2012	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Actual	2044	108670	85	0

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	7	7
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V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Winter Dairy Forums.

Year	Actual
2012	3

Output #2

Output Measure

- Milker schools.

Year	Actual
2012	5

Output #3

Output Measure

- Calf Schools.

Year	Actual
2012	2

Output #4

Output Measure

- Artificial Insemination Schools.

Year	Actual
2012	3

Output #5

Output Measure

- Feeder Schools.

Year	Actual
2012	2

Output #6

Output Measure

- Popular Press articles.

Year	Actual
2012	6

Output #7

Output Measure

- Abstracts and Proceedings.

Year	Actual
2012	13

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

O. No.	OUTCOME NAME
1	O: Dairy Producers and workers will increase knowledge by attending dairy schools and dairy forums. I: Number attending schools and forums.
2	O: Dairy workers will increase knowledge and understanding of dairy management practices. I: Percent knowledge change by attendees (as evaluated with pre/post testing).
3	O: Sound dairy management practices will be adopted by dairy operations as a result of attending the management schools. I: Percent of participants with intent to adopt recommended dairy management practices (as evaluated with pre/post testing).
4	O: Dairy workers will use proper techniques taught in dairy education programs (e.g., AI techniques, feeding adjustments, milking techniques). I: Percent of participants demonstrating mastery (assessed at dairy education programs).

Outcome #1

1. Outcome Measures

O: Dairy Producers and workers will increase knowledge by attending dairy schools and dairy forums. I: Number attending schools and forums.

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	203

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Milker training improves milking techniques, milk quality, worker and owner satisfaction.

What has been done

Two UI Dairy Extension Spanish and English language AI Schools were held in 2012. One Middle Manager School focused on reproduction of lactating cows was held.

Results

30 people attended these educational events. Those attending the Spanish and English language AI Schools successfully performed semen handling and passed the AI gun through the cervix of a cow.

4. Associated Knowledge Areas

KA Code	Knowledge Area
301	Reproductive Performance of Animals
302	Nutrient Utilization in Animals
305	Animal Physiological Processes
307	Animal Management Systems
308	Improved Animal Products (Before Harvest)
311	Animal Diseases

Outcome #2

1. Outcome Measures

O: Dairy workers will increase knowledge and understanding of dairy management practices. I: Percent knowledge change by attendees (as evaluated with pre/post testing).

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

O: Sound dairy management practices will be adopted by dairy operations as a result of attending the management schools. I: Percent of participants with intent to adopt recommended dairy management practices (as evaluated with pre/post testing).

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	45

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Hispanic dairy managers usually lack scientific and training knowledge to fully understand and fulfill their responsibilities as dairy managers. They also lack of support group where they can get answers in Spanish and English at the same time for better understanding of the topics addressed.

What has been done

Monthly meetings with Hispanic dairy managers, called Dairy Hispanic managers round table.

Results

Hispanic dairy managers have been attending this monthly meetings for more than one year. They are very responsive and happy because Extension is helping them to be better managers. An estimated 150000 cows are affected by what these managers learn in our meetings, since managers from the biggest dairies around the area attend the meetings. Some English speaking dairy or allied industry personnel attend the meetings to learn more and practice their Spanish

too.

4. Associated Knowledge Areas

KA Code	Knowledge Area
301	Reproductive Performance of Animals
302	Nutrient Utilization in Animals
305	Animal Physiological Processes
307	Animal Management Systems
308	Improved Animal Products (Before Harvest)
311	Animal Diseases

Outcome #4

1. Outcome Measures

O: Dairy workers will use proper techniques taught in dairy education programs (e.g., AI techniques, feeding adjustments, milking techniques). I: Percent of participants demonstrating mastery (assessed at dairy education programs).

2. Associated Institution Types

- 1862 Extension
- 1862 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

Year	Actual
2012	34

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Improved AI skill should lead to increased AI pregnancy rates. Newly certified AI technicians have increased earning potential and improved employability.

What has been done

AI schools were taught for beef and dairy producers and employees. Participants learned proper Semen handling and AI technique of cattle.

Results

All students exhibited 100% mastery of the techniques necessary to successfully perform artificial insemination of dairy and beef cattle.

4. Associated Knowledge Areas

KA Code	Knowledge Area
301	Reproductive Performance of Animals
302	Nutrient Utilization in Animals
305	Animal Physiological Processes
307	Animal Management Systems
308	Improved Animal Products (Before Harvest)
311	Animal Diseases

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Government Regulations
- Competing Programmatic Challenges
- Other (continuing rapid growth of this industry in Idaho)

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}