

Animal Science

Animal Science

V(A). Planned Program (Summary)

1. Name of the Planned Program

Animal Science

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		10%		12%
302	Nutrient Utilization in Animals		10%		13%
303	Genetic Improvement of Animals		15%		25%
304	Animal Genome		5%		0%
305	Animal Physiological Processes		5%		0%
306	Environmental Stress in Animals		5%		0%
307	Animal Management Systems		10%		25%
308	Improved Animal Products (Before Harvest)		3%		0%
311	Animal Diseases		10%		12%
312	External Parasites and Pests of Animals		2%		0%
313	Internal Parasites in Animals		20%		13%
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals		2%		0%
315	Animal Welfare/Well-Being and Protection		3%		0%
	Total		100%		100%

V(C). Planned Program (Inputs)

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

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	1.5	0.0	4.0
Actual	0.0	1.3	0.0	4.8

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

Extension		Research	
Smith-Lever 3b & 3c 0	1890 Extension 107988	Hatch 0	Evans-Allen 1171916
1862 Matching 0	1890 Matching 0	1862 Matching 0	1890 Matching 723492
1862 All Other 0	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- a. Conducting research utilizing herbs to control internal parasites in small ruminants.
Practice the use of artificial insemination in large and small ruminants reduce cost.
- c. Develop sunfish cultivars for distribution to the industry.
- d. Determine nutritional requirements of sunfishes.
- e. Develop optimal production dynamics for sunfishes.
- f. Provide aquaculture fish health services for stakeholders.
- g. Use of real- time ultrasonograph to examin pregnant sheep and goat does for gestation.
- h. Reduce mosquito population responsible for transmitting the causative agents for cattle and humans.

2. Brief description of the target audience

Limited resources audiences
Small farmers
Farmers with unsuitable land for row-crop farming.

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	2100	80000	400	2000
2008	2450	20000	1500	2000

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

Patent Applications Submitted

Year Target
Plan: 0
2008: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	0	
2008	6	2	8

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Research Projects Completed* Year Aquaculture Small Ruminant Large Ruminant 2008 0 1 0 2009 4 1 0 2010 0 1 0 2011 2 1 1 2012 2 1 1 *Projects reported only in year of completion Presentations Year Aquaculture Small Ruminant Large Ruminant 2008 6 2 0 2009 6 2 0 2010 6 2 0 2011 6 2 0 2012 6 2 0 Manuscripts Year Aquaculture Small Ruminant Large Ruminant 2008 4 1 0 2009 4 1 0 2010 4 1 0 2011 5 2 0 2012 5 2 0

Year	Target	Actual
2008	14	32

V(G). State Defined Outcomes

O No.	Outcome Name
1	Aquaculture- Define sunfish nutritional requirements. Develop a fast growing sunfish cultivar. Identify viable production systems for sunfishes. Make available a fish health protocol. Small Ruminants- Assess the use of herb cultivars for control of internal parasites. Investigate new cultivars of grasses and legumes for potential improvement of weight gains in lambs and kids. Develop optical or biosensor to determine optimum breeding time. Large Ruminants- Develop optical sensor or biosensor for determining optimum breeding time.
2	Transfer new technologies for sunfish, small and large ruminant production to farmers. Farmers will use learned technologies.
3	Farmers adopt new technologies for increased and sustainable production.

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Economy

Public Policy changes

Competing Programmatic Challenges

Brief Explanation

A new faculty position which was planned to be filled during 2008 FY- did not take place and this affected some of the outcome in this area.

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

1. Evaluation Studies Planned

After Only (post program)

Case Study

Evaluation Results

Key Items of Evaluation