

# Sustained Livestock Production

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## V(A). Planned Program (Summary)

### 1. Name of the Planned Program

Sustained Livestock Production

## 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%		10%	
302	Nutrient Utilization in Animals	20%		20%	
303	Genetic Improvement of Animals	10%		10%	
305	Animal Physiological Processes	10%		10%	
306	Environmental Stress in Animals	5%		5%	
307	Animal Management Systems	20%		20%	
311	Animal Diseases	10%		10%	
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals	5%		5%	
402	Engineering Systems and Equipment	5%		5%	
722	Zoonotic Diseases and Parasites Affecting Humans	5%		5%	
	<b>Total</b>	100%		100%	

## V(C). Planned Program (Inputs)

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

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	17.0	0.0	3.7	0.0
<b>Actual</b>	42.3	0.0	10.6	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 403134	1890 Extension	Hatch 186567	Evans-Allen
	0		0
1862 Matching 526910	1890 Matching	1862 Matching	1890 Matching
	0	186567	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	2073886	0

**V(D). Planned Program (Activity)****1. Brief description of the Activity**

The Utah Agricultural Experiment Station will:

1. Conduct research experiments and develop theories that can be used to enhance livestock production in an environmentally friendly manner.

2. Publish studies and make presentations related to this research.

3. It is expected that this research will eventually result in one patent issued in year 2011/year.

Extension will outreach to adult and youth producers and provide educational training, farm and ranch visits, and in-depth applied information on:

1. Dairy management and related topics

2. Beef Quality Assurance principles to beef producers

3. Master Beef Managers

4. Master Livestock Managers

5. Understanding and ability to keep and use farm records

6. Optimal production techniques for year round turkey production

7. The threat of foreign animal diseases and the role and methods of biosecurity for control and prevention

8. Disease and pest control

9. Agrarian and equine needs of small acreage owners

10. Sheep and goats

**2. Brief description of the target audience**

The target audience for this work would be local and regional livestock (primarily beef, dairy, and equine) producers, small acreage owners, 4-H youth, veterinarians, USDA, state policy makers, academic units, businesses, and local, state, and regional political leaders.

**V(E). Planned Program (Outputs)****1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	26000	54577	15000	31487
2007	22273	72420	6324	15105

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

**Year**    **Target**

**Plan:**    0

2007:    0

**Patents listed****3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	11	11

**V(F). State Defined Outputs****Output Target****Output #1****Output Measure**

Number of peer-reviewed journal articles and books/chapters in books extensively peer reviewed

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	40	11

**Output #2****Output Measure**

Number of intermediate publications and presentations (i.e., refereed proceedings).

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	10	38

**Output #3****Output Measure**

Level of contract/grant funding

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	100000	391414

**Output #4****Output Measure**

Number of graduate students or post-doctorate's trained

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	2	13

**Output #5****Output Measure**

Number of undergraduate students involved in research

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	2	4

**Output #6****Output Measure**

Number of theses/dissertations completed

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	2	3

**V(G). State Defined Outcomes**

<b>O No.</b>	<b>Outcome Name</b>
1	Number of agricultural animal owners increasing their knowledge of sustained animal production practices.
2	Number of times agricultural animal owners implemented one or more sustained animal production practices.
3	Improvement in livestock productivity (i.e., pounds of beef or milk produced per animal per year, expressed in percentage terms).
4	Improvement in cash receipts from livestock production relative to average of 1999-2004 production years.

**Outcome #1**

**1. Outcome Measures**

*Not reporting on this Outcome for this Annual Report*

**2. Associated Institution Types**

**3a. Outcome Type:**

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
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**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

**What has been done**

**Results**

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
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**V(H). Planned Program (External Factors)**

**External factors which affected outcomes**

Natural Disasters (drought, weather extremes, etc.)

Economy

Appropriations changes

Public Policy changes

Government Regulations

Competing Public priorities

Competing Programmatic Challenges

Populations changes (immigration, new cultural groupings, etc.)

Other (Diseases; Invasive Species)

**Brief Explanation**

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

### **1. Evaluation Studies Planned**

After Only (post program)

Retrospective (post program)

Before-After (before and after program)

During (during program)

Time series (multiple points before and after program)

Case Study

Comparisons between program participants (individuals,group,organizations) and non-participants

Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

Comparison between locales where the program operates and sites without program intervention

### **Evaluation Results**

### **Key Items of Evaluation**