

# Animal Production

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

### 1. Name of the Planned Program

Animal 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%	
304	Animal Genome	0%		40%	
305	Animal Physiological Processes	10%		10%	
306	Environmental Stress in Animals	15%		5%	
307	Animal Management Systems	45%		15%	
	<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>	2.0	0.0	5.0	0.0
<b>Actual</b>	3.5	0.0	4.7	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 13741	1890 Extension	Hatch 111824	Evans-Allen
	0		0
1862 Matching 13741	1890 Matching	1862 Matching	1890 Matching
	0	111824	0
1862 All Other 610398	1890 All Other	1862 All Other	1890 All Other
	0	1298231	0

## V(D). Planned Program (Activity)

### 1. Brief description of the Activity

Research activities will include a mix of focused research projects primarily in the areas of biotechnology and nutrition. Extension activities will be focused in the areas of equine, dairy and shellfish, with emphasis on production through aquaculture, nutrition and management. Peer reviewed publications will emanate from both research and Extension activities, along with presentations, training of graduate students, conferences, meetings, fact sheets and panel service.

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## 2. Brief description of the target audience

Policy makers, industry, producers, scientific community, agencies, regulators, youth.

## 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	450	1200	100	200
2007	884	1350	177	240

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

#### Patent Applications Submitted

Year Target

Plan: 1

2007: 2

#### Patents listed

US patent # 6,982,172 issued January 3, 2006, 'Oocyte vitrification' and corresponding China patent # ZL01806056.0 issued February 28, 2007.

US Patent #7,071,372 issued July 4, 2006, 'Method for cloning animals with targeted genetic alterations by transfer of long-term cultured male or female somatic cell nuclei, comprising artificially-induced genetic alterations, to enucleated recipient cells' and corresponding China patent # ZL01806055.2 issued January 3, 2007.

### 3. Publications (Standard General Output Measure)

#### Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2007	9	78	87

**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

Peer reviewed publications

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	5	87

**Output #2**

**Output Measure**

Books and monographs

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	1	3

**Output #3**

**Output Measure**

Conference abstracts

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	1	4

**Output #4**

**Output Measure**

Workshops and conferences hosted

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	3	6

**Output #5**

**Output Measure**

Fact sheets and bulletins

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	5	12

**Output #6**

**Output Measure**

Websites developed

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	1	1

**Output #7**

**Output Measure**

Presentations and short courses offered

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	20	51

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

<b>O No.</b>	<b>Outcome Name</b>
1	Identify specific characteristics of genomes
2	Determine fundamental understandings of animal growth
3	Public policy actions supporting biotechnology
4	Treatment methods developed for human and animal diseases
5	Increased (%)research funding
6	Newly developed best management practices (BMPs) adopted by producers
7	New regulatory procedures adopted by governmental agencies

**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**

Natural Disasters (drought, weather extremes, etc.)

Economy

Appropriations changes

Public Policy changes

Government Regulations

Competing Public priorities

Competing Programmatic Challenges

**Brief Explanation**

{No Data Entered}

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

**1. Evaluation Studies Planned**

After Only (post program)

During (during program)

### **Evaluation Results**

Farmers are encouraged by various government agencies to explore alternative enterprises which will provide economic sustainability. In order to receive the grants, the farmers must complete the business planning process, showing that the added net income will justify the program's assistance in the operation. Using the excel spreadsheet on the computer, farmers create different scenarios of product pricing and the costs to produce, process, and market the products.

Five farms completed agriculture enterprise budgets as part of their application for cost-sharing or bank financing. Seven farms returned a survey, stating that new information was learned in financial management of their farms:

- cost of production and marketing of cattle
- learned about grants available for farms
- business planning
- reduction of energy costs using solar and wind
- costs of solar and wind power on their farm

One farm received grant money to improve the maple syrup operation and marketing, increasing their net income by 23%.

### **Key Items of Evaluation**

Financial evaluation of alternative agricultural enterprises found that surveyed farms stated that new information was learned in financial management of their farms in the areas of:

- cost of production and marketing of cattle
- learned about grants available for farms
- business planning
- reduction of energy costs using solar and wind
- costs of solar and wind power on their farm