

# Animal Biology and Production

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

### 1. Name of the Planned Program

Animal Biology and 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			33%	
302	Nutrient Utilization in Animals			10%	
303	Genetic Improvement of Animals			6%	
304	Animal Genome			12%	
305	Animal Physiological Processes			9%	
306	Environmental Stress in Animals			8%	
307	Animal Management Systems			2%	
308	Improved Animal Products (Before Harvest)			6%	
311	Animal Diseases			12%	
314	Toxic Chemicals, Poisonous Plants, Naturally Occurring Toxins, and Other Hazards Affecting Animals			2%	
	<b>Total</b>			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>	0.0	0.0	10.0	0.0
<b>Actual</b>	0.0	0.0	17.0	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
0	0	1859642	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	1859642	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	9934543	0

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

**1. Brief description of the Activity**

Basic and translational research will be conducted and the results disseminated via scientific publications, scientific meetings, workshops, conferences, etc.

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

researchers, scientists, extension specialists, livestock producers

**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>	0	0	0	0
2007	0	0	0	0

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

**Patent Applications Submitted**

**Year Target**

**Plan: 1**

2007: 4

**Patents listed**

PT 32 Sperm protein, Sperm c-Yes, Oocyte Cytoplasmic c-Yes, and Uses Thereof. P. Sutovsky, R. Oko, Inventors, U.S. US Patent No 6,995,252 granted

'Early Pregnancy Diagnosis Using PAGS (pregnancy-associated glycoproteins) Mexican Patent 233668

Categorically ranking animals for feed efficiency

Amino acid oligomer dietary supplement

**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	306	0

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

**Output Target**

**Output #1**

**Output Measure**

Number of peer reviewed journal articles

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	80	157

**Output #2**

**Output Measure**

Number of other peer reviewed publications (book chapters, proceedings, abstracts, etc.)

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	70	148

**Output #3**

**Output Measure**

Number of invited papers and invited presentations

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	12	56

**Output #4**

**Output Measure**

Number of graduate degrees awarded

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	15	20

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

<b>O No.</b>	<b>Outcome Name</b>
1	1) Pigs will be genetically modified to provide new biomedical models of human and animal diseases.
2	2) Improved and more economical protocols for fixed-time artificial insemination of cattle will be developed.
3	3) New information on measuring feed efficiency in cattle will be developed and recommendations on the incorporation of byproducts feeds into swine, poultry, and cattle rations will be determined.
4	4) Management procedures will be developed for reducing negative environmental impacts in swine, poultry, and beef confinement.
5	5) New selection tools for the genetic improvement of livestock species will be developed.

**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**

- Public Policy changes
- Government Regulations
- Competing Public priorities

**Brief Explanation**

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

**1. Evaluation Studies Planned**

During (during program)

**Evaluation Results**

{No Data Entered}

**Key Items of Evaluation**

{No Data Entered}