

# Reproductive Performance of Animals

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

### 1. Name of the Planned Program

Reproductive Performance of Animals

## 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	60%		60%	
304	Animal Genome	40%		40%	
<b>Total</b>		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
<b>Plan</b>	0.0	0.0	1.2	0.0
<b>Actual</b>	0.3	0.0	1.7	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	278838	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	572806	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	122742	0

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

### 1. Brief description of the Activity

- Conduct Research Experiments.
- Deliver Services.
- Develop Products, Curriculum, Resources.
- Assessments.
- Partnering.

### 2. Brief description of the target audience

Target audiences are scientists working in reproductive physiology, Extension personnel, genetic companies in all species and Oregon 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>	100	300	0	0
2008	50	150	0	0

**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**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>	0	2	
2008	0	2	2

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

**Output Target**

**Output #1**

**Output Measure**

DEVELOP BETTER UNDERSTANDING OF BASIC PHYSIOLOGY OF PLANTS AND ANIMALS - Inform peers of factors affecting differentiation and outgrowth of endodermal cells from the bovine inner cell mass during the formation of extraembryonic endoderm. (Menino) - inform peers of the relationship and interactions between the immune and reproductive systems with regard to establishment and maintenance of pregnancy. (Cannon) - conduct experiments on physiological constraints limiting gamete viability (Froman) 1/yr

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	10	4

**Output #2**

**Output Measure**

CARRY OUT STUDIES TO DECIPHER GENOMES, GENETICS AND MECHANISMS OF PLANTS AND ANIMALS - describe effects of the reproductive hormones on gene expression and cell function - Know expression patterns and identity of cells expressing suppressors of cytokine signaling genes, and how these genes are regulated in reproductive tissues

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	0	2

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

O No.	Outcome Name
1	Knowledge gained regarding reproductive biology - Peers gain new information regarding the developmental biology of the early bovine embryo and factors affecting establishment of extraembryonic endoderm - Peers and producers learn new means to improve fertility in dairy cattle and to reduce uterine infections - Peers gain detailed knowledge of sperm cell function and a conceptual basis for understanding a genetic basis for fertility in male poultry
2	Improved fertility and genetic stock - Producers and animal health professionals use information to improve fertility and prevent uterine infections in dairy cattle into every-day on-farm practices. - Industry stores sperm cells with minimal loss of function for use as a commodity and for long-term maintenance of genetic stock
3	Reduced costs and economic benefits achieved - Costs associated with uterine disease and infertility in the dairy industry are reduced - A method for cryopreservation of poultry semen enables an emergence of frozen poultry semen as a commodity, and it changes the way in which commercial breeders of poultry conduct their business, i.e., through reproductive management of male stock, selection schemes, retention of traits in the form of cryopreserved semen, and the emergence of cryopreserved poultry semen as a commodity - A collateral effect will be improved semen preservation in vertebrates in general.

**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

Government Regulations

**Brief Explanation**

{No Data Entered}

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

**1. Evaluation Studies Planned**

After Only (post program)

Retrospective (post program)

During (during 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.

**Evaluation Results**

{No Data Entered}

**Key Items of Evaluation**

{No Data Entered}