

Plant, Animal, and Microbial Genomics

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Plant, Animal, and Microbial Genomics

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
201	Plant Genome, Genetics, and Genetic Mechanisms	25%		25%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plants	5%		5%	
301	Reproductive Performance of Animals	15%		15%	
303	Genetic Improvement of Animals	20%		20%	
304	Animal Genome	20%		20%	
305	Animal Physiological Processes	5%		5%	
501	New and Improved Food Processing Technologies	10%		10%	
	Total	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
Plan	0.0	0.0	7.9	0.0
Actual	0.0	0.0	14.0	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	572755	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	572755	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	3059524	0

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

1. Conduct research experiments and develop theories that can be used to enhance plant and animal productive efficiencies.
2. Publish studies related to these areas of concern.
3. Conduct workshops and meetings for other scientists involved in this area of research.
4. Develop applications for the research on plant and animal genomics to directly benefit producers, youths, and other scientists.

2. Brief description of the target audience

The target audience for this research will primarily be other scientists involved in genomics work but the gains achieved will eventually be available to the general public as these technologies become commercialized. Other interested parties include numerous businesses related to this area of research. The eventual end-user, i.e., the producer or food processor, will realize benefits from the research long term.

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	30	60	20	40
2007	0	0	0	0

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**

	Extension	Research	Total
Plan			
2007	0	76	76

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

Year	Target	Actual
2007	40	76

Output #2**Output Measure**

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

Year	Target	Actual
2007	3	80

Output #3**Output Measure**

Level of contract/grant funding

Year	Target	Actual
2007	500000	373928

Output #4**Output Measure**

Number of graduate students or post-doctorate's trained

Year	Target	Actual
2007	2	23

Output #5**Output Measure**

Number of undergraduate students involved in research

Year	Target	Actual
2007	2	10

Output #6**Output Measure**

Number of theses/dissertations completed

Year	Target	Actual
2007	2	2

V(G). State Defined Outcomes

O No.	Outcome Name
1	Increase in productivity (plant and animal) per year (expressed in percentage terms) due to enhanced genetical capacity.

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
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges

Brief Explanation

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

1. Evaluation Studies Planned

- During (during program)
- Time series (multiple points before and after program)
- Case Study
- Comparisons between program participants (individuals,group,organizations) and non-participants

Evaluation Results

Key Items of Evaluation