

# Overall Program

Overall Program

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

### 1. Name of the Planned Program

Overall Program

## V(B). Program Knowledge Area(s)

### 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
101	Appraisal of Soil Resources			3%	
102	Soil, Plant, Water, Nutrient Relationships			6%	
123	Management and Sustainability of Forest Resources			12%	
133	Pollution Prevention and Mitigation			4%	
201	Plant Genome, Genetics, and Genetic Mechanisms			8%	
202	Plant Genetic Resources			2%	
205	Plant Management Systems			4%	
206	Basic Plant Biology			5%	
211	Insects, Mites, and Other Arthropods Affecting Plants			6%	
212	Pathogens and Nematodes Affecting Plants			8%	
301	Reproductive Performance of Animals			5%	
302	Nutrient Utilization in Animals			5%	
304	Animal Genome			5%	
305	Animal Physiological Processes			4%	
311	Animal Diseases			6%	
501	New and Improved Food Processing Technologies			4%	
502	New and Improved Food Products			2%	
604	Marketing and Distribution Practices			3%	
702	Requirements and Function of Nutrients and Other Food Components			5%	
712	Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins			3%	
<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	158.5	0.0
<b>Actual</b>	0.0	0.0	166.1	0.0

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b> 0	<b>1890 Extension</b> 0	<b>Hatch</b> 4417931	<b>Evans-Allen</b> 0
<b>1862 Matching</b> 0	<b>1890 Matching</b> 0	<b>1862 Matching</b> 10178953	<b>1890 Matching</b> 0
<b>1862 All Other</b> 0	<b>1890 All Other</b> 0	<b>1862 All Other</b> 0	<b>1890 All Other</b> 0

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

**1. Brief description of the Activity**

As a research driven activity, this state project is made up of approximately 160 individual research projects addressing national, regional and state needs, and includes both multi-state and integrated activity.

As a research report, we are not reporting activities for the University of Wisconsin-Extension. We have started a discussion with UW-Extension on activities, but truthfully, we have made little progress over the last year. We will attempt to make progress on this in the coming year.

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

The target audience includes:

- General agriculture
- Food processing and marketing industry
- Animal and dairy related agriculture
- Plant and cropping system interests including vegetables
- Green industry (turf, ornamentals, etc.)
- Biotechnology
- Bio-energy and Bio-economy groups
- Sustainable and organic food producers
- Environmental groups and interests
- Consumer and non-traditional groups
- Governmental agencies and officials
- Scientific community

**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**

<b>Year</b>	<b>Target</b>
<b>Plan:</b>	2
2007:	6

Overall Program

**Patents listed**

- 1) PI: Jim Nienhuis - Includes 'Snap Bean'
- 2) PI: William Reznikoff - 'Mutated Tn5 transposase protein and the use thereof'. The application number is 11/195113.
- 3) PI: Michael Sussman - 'Use of a Gene Encoding a Histidine Protein Kinase to Create Drought Resistant Plants'
- 4) PI: Aseem Ansari - Includes 'Chemical Mimics of Cellular Proteins that Control Cellular Development'

The department of Bacteriology has indicated that two patent applications were submitted from their department. However, the department has not responded with additional information regarding these patent applications. This information will be included in the FY08 annual report.

**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	182	182

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

**Output Target**

**Output #1**

**Output Measure**

Output measures for this project include patents, graduate students trained, and publications. While we have data on patents with federal support, we have not previously tracked patents specifically linked to HATCH support. This estimated output does not have the same level of confidence as the others measures and will be refined as we gain experience with this measure for HATCH supported work. Graduate Students Trained (Degrees Granted):

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	35	62

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

O No.	Outcome Name
1	<p>Outcome measures for this work are both qualitative and quantitative. We will rely on feedback from stakeholder groups, advisory boards, and individual constituents, as well as from UW Extension teams on the relevance, importance and impact of our research program. The output measures listed earlier will also serve as outcome measures in that patents graduate degrees, and publications all include an element of critical review and assessment of uniqueness, originality, contribution to the science and knowledge base, or other performance criteria. Finally, we will use the Thomson ISI Essential Science Indicator for agricultural science as a measure of impact of our research program. Our target for this outcome measure is to be ranked in the top 5 institutions in the United States. We will continue to develop impact statements for individual projects which have shown exemplary and significant impact. Publications:</p>

**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

**Brief Explanation**

A variety of factors could affect the outcomes of this project including those listed above. However, the breadth of the program makes it unlikely that the outputs would be completely disrupted unless there was some major natural, economic, or public policy disruption. A major change in Federal policy or appropriation affecting the Hatch program could affect our ability to meet our outcomes. The UW-Madison is implementing a policy change regarding tuition remission. Hatch and other Formula Grants have previously been exempt in the UW-System, but will no longer be exempt in the next few years. Since these funds do not allow tuition remission, we could be forced to re-evaluate some alternative to meeting our Hatch mission with fewer graduate students being trained. However, we recently have re-affirmed this as a priority for this program.

The other issue that did affect program allocation in FY2007 was the Federal redirection of Special Grants into the Formula Grant system. This presented some challenges as to how to meet the intent of Congress through the Formula system. There were no natural disasters or other factors that had a significant affect.

Overall Program

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

**1. Evaluation Studies Planned**

Retrospective (post program)

During (during program)

**Evaluation Results**

**Key Items of Evaluation**