

# Plant Production Systems

Plant Production Systems

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

### 1. Name of the Planned Program

Plant Production Systems

## 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	0%		10%	
202	Plant Genetic Resources	4%		5%	
203	Plant Biological Efficiency and Abiotic Stresses Affecting Plant	3%		10%	
204	Plant Product Quality and Utility (Preharvest)	2%		0%	
205	Plant Management Systems	35%		20%	
206	Basic Plant Biology	8%		10%	
211	Insects, Mites, and Other Arthropods Affecting Plants	3%		10%	
212	Pathogens and Nematodes Affecting Plants	6%		10%	
213	Weeds Affecting Plants	9%		10%	
215	Biological Control of Pests Affecting Plants	3%		5%	
216	Integrated Pest Management Systems	27%		10%	
	<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>	21.0	0.0	36.0	0.0
<b>Actual</b>	20.0	0.0	26.7	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 196167	1890 Extension	Hatch 1020930	Evans-Allen
	0		0
1862 Matching 196167	1890 Matching	1862 Matching	1890 Matching
	0	1020930	0
1862 All Other 788374	1890 All Other	1862 All Other	1890 All Other
	0	3108810	0

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

**1. Brief description of the Activity**

•Conduct basic and applied research in plant productions systems. • Workshops and educational classes for producers. •Utilize demonstration plots and field days to communicate program results. •Use individual counseling with producers and clientele on specific plant production problems

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

Individual agricultural producers, homeowners, agribusinesses, and commodity organizations.

**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>	800	5000	0	0
2007	84277	2330	0	0

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

**Patent Applications Submitted**

<b>Year</b>	<b>Target</b>
<b>Plan:</b>	0
2007:	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>			
2007	8	84	92

**V(F). State Defined Outputs****Output Target****Output #1****Output Measure**

Release of technologies adopted by growers such as crop cultivars, crop germplasm, or components of crop production systems.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	2	4

**Output #2****Output Measure**

Number of attendees at workshops/trainings/field days.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	600	20920

**Output #3****Output Measure**

Amount of grant dollars garnered to support natural plant production systems research and outreach.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	25000	2239813

**Output #4****Output Measure**

Technical publications in the topical area of plant production systems.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	25	155

**Output #5****Output Measure**

Number of basic and applied research efforts in plant production systems. Number of workshops, educational classes for producers Number of demonstration plots and field days Number of individual consultations

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	50	0

**Output #6****Output Measure**

Number of Extension workshops focusing on plant production systems.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	{No Data Entered}	553

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

<b>O No.</b>	<b>Outcome Name</b>
1	Percent of participants at workshops/trainings/field days indicating an increase in knowledge gained.
2	Percent of participants indicating change in behavior/best practices adopted.
3	Economic impact of the change in behavior reported.
4	Adoption of crop production technology as measured by agricultural statistics.
5	Adoption of improved wheat cultivars
6	Potential of living mulches to decrease soil erosion.

**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 Programmatic Challenges

**Brief Explanation**

Implementation of a new reporting system has resulted a lack of data for some outputs and outcomes. Continued emphasis on specific, quantifiable outputs and outcomes should result in a stronger report in subsequent years.

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

**1. Evaluation Studies Planned**

After Only (post program)

Before-After (before and after program)

During (during program)

Case Study

**Evaluation Results**

**Key Items of Evaluation**