Program in Sustainable Crop and Soil Managment

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Program in Sustainable Crop and Soil Managment

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships			100%	
	Total			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	44.8	0.0
Actual	0.0	0.0	72.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 0	1890 Extension 0	Hatch 1081609	Evans-Allen 0
1862 Matching 0	1890 Matching 0	1862 Matching 2031798	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 5034148	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Develop bioproducts from crop residues. Demonstrate high quality and safe food from organic and sustainable production systems. Document environmental services provided by sustainable cropping systems. Improve efficiency and safety of waste recycling systems in agricultural production. Identify soil biological organisms important in crop production, residue decomposition and soil building. . Develop soil management programs for new crop species and cultivars of evolving cropping systems in collaboration with crop genetic and breeding teams. Publish journal papers on unique findings related to the above topics. Establish patents on biologically unique organisms and processes. Disseminate information on the above systems to facilitate adoption and commercialization.

2. Brief description of the target audience

The target audience includes other soil scientists, economists, commodity commissions, policy makers, legislators, agribusiness, and farmers.

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	0	0	0	0
2007	10900	1500	350	500

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	14	19	33

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Peer reviewed journal publications

Year	**Target**	**Actual**
2007	46	33

Output #2

Output Measure

Graduate students supported by Agricultural Research Center and other external funds

Year	**Target**	**Actual**
2007	20	30

V(G). State Defined Outcomes

O No.	Outcome Name
1	Publications dealing with improved knowledge of crop rotations, nutrient cycling, soil building and carbon sequestration, fertility management, soil structure and soil water movement, chemical movement in soils, tools for spatial monitoring and management.

Program in Sustainable Crop and Soil Managment

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

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area

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
Competing Programmatic Challenges

Brief Explanation

Major factors in 2007 include continuing drought, which impacted field research results; Iraq war negative impacts on the economy including inflation, which affects production input costs, which in turn puts downward pressure on farmer adoption of new technologies, especially soil conservation measures; and especially the total direct loss of special grants when all earmarks were stricken from the federal budget. Increased costs of inputs affecting farmers also affect researchers.

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

1. Evaluation Studies Planned

Before-After (before and after program)
During (during program)

Evaluation Results

Key Items of Evaluation