Sustainable Agriculture

Sustainable Agriculture

V(A). Planned Program (Summary)

1. Name of the Planned Program

Sustainable Agriculture

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
121	Management of Range Resources			25%	
132	Weather and Climate			10%	
205	Plant Management Systems			15%	
206	Basic Plant Biology			20%	
213	Weeds Affecting Plants			15%	
215	Biological Control of Pests Affecting Plants			15%	
	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	1.6	0.0	3.6	0.0
Actual	0.0	0.0	36.0	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 187366	Evans-Allen 0
1862 Matching 0	1890 Matching 0	1862 Matching 1283118	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 3241413	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Activity includes the communication of research results through field days, news releases and presentations at county and state meetings and conventions, holding strategic planning meetings with state agricultural groups, and distributing results of research via the Internet.

2. Brief description of the target audience

Our target audience is crop and livestock producers in Montana, Montana wheat and barley committees, crop protection companies, fertilizer advisory committees, conservation tillage equipment companies, alternative energy groups, and state agricultural advisory committees.

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	200	100	0	0
2007	1050	1050	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2007:	1

Patents listed

Bergman, J., Sustainable Systems, LLC license for 'Montola' safflower variety in U.S.

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2007	0	8	8

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of research citations

Year	Target	Actual
2007	5	10

V(G). State Defined Outcomes

O No.	Outcome Name
1	Number of strategic planning meetings with state groups and agencies
2	Number of producers per year implementing new farm management and budgeting practices
3	The amount of additional funding per year from new sources or increased funding from existing sources ($)
4	Number of field days, news releases and presentations at conventions
5	Number of new producers per year adopting measures to improve agricultural efficiency (e.g. better seed quality, higher numbers of fields with soil tested, optimization of fertilizer use)
6	Percent increase in acres per year of alternative crops compared to wheat and barley

Sustainable Agriculture
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.)
Appropriations changes
Public Policy changes

Brief Explanation

Higher fuel and fertilizer prices have forced producers of small grains to consider alternative cropping systems where feasible.

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

1. Evaluation Studies Planned

Retrospective (post program)
During (during program)

Evaluation Results

Evaluations are in progress. The interest in alternative crops, reduced inputs, and reduced tillage continues to suggest that growers are looking for alternatives to current cropping systems.

Key Items of Evaluation

The increased interest in camelina, winter and spring peas, and dry beans indicates a shift in production goals for Montana farmers.