

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: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.6	0.0	3.6	0.0
Actual	0.0	0.0	28.4	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	248748	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	252304	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	2001040	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

•Communicate research results through field days, news releases, and presentations at county and state meetings and conventions •Distribute results of research via the Internet. •Hold strategic planning discussions with state agricultural groups.

2. Brief description of the target audience

•Alternative energy groups and state agricultural advisory committees •Crop and livestock producers in Montana •Montana wheat and barley committees, crop protection companies, fertilizer advisory committees, conservation tillage equipment companies •Participants in extension and commodity group meetings and conferences

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	300	100	0	0
2008	1050	1050	0	0

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

Year Target

Plan: 0

2008: 0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	Extension	Research	Total
Plan	0	5	
2008	0	8	8

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

Number of research citations

Year	Target	Actual
2008	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	Increased number of new crops adapted to Montana through percent acres increased
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

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.)

Appropriations changes

Public Policy changes

Brief Explanation

High grain prices have encouraged growers to stay with traditional crops to take advantage of improved markets.

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 and enhanced opportunities for Montana farmers.