

Forage Production and Management

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Forage Production and Management

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
205	Plant Management Systems	40%			
307	Animal Management Systems	40%			
402	Engineering Systems and Equipment	20%			
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	10.0	0.0	0.0	0.0
Actual	5.0	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 316999	1890 Extension	Hatch	Evans-Allen
	0	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Forage Production and Management will use multiple delivery methods to reach the target audience: regional three-day schools on management-intensive grazing; pasture-based dairying core group meeting and "pasture walks; winter feeding systems and summer pasture program using demos, clinics, and tours. Fescue toxicosis and management workshops; Missouri Forage and Grassland Council Forage Conference; field days at outlying research centers; MU forage websites and multistate websites (cooperating with Oregon State University), electronic guides; CDs with prepared presentations; in-service training (ISEs) for regional staff; news releases for the general public; and popular press articles.

2. Brief description of the target audience

The primary target audience includes Missouri forage and livestock producers. These are mainly producers of beef and dairy cattle, although the program does address forages for other livestock, such as sheep, goats and horses, and nonlivestock forage producers, such as hay producers and wildlife conservationists. The program also targets industry and government, as it presents current science, technology and training to agricultural business and policymakers.

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	5000	20000	1000	0
2007	5787	9034	262	470

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	0	0	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Provide two in-service training sessions for regional Extension specialists on an annual basis.

Year	Target	Actual
2007	2	2

Output #2

Output Measure

Develop or revise four guide sheets on an annual basis for regional Extension specialists to use in producer meetings.

Year	Target	Actual
2007	4	1

Output #3

Output Measure

Revise Missouri publication M168, Missouri Dairy Grazing Manual.

Year	Target	Actual
2007	1	0

V(G). State Defined Outcomes

O No.	Outcome Name
1	Nine hundred (900) producers will annually attend a management-intensive grazing (MiG) school.
2	Twenty thousand (20,000) Missouri producers will increase their awareness of stockpiling and summer pasture management for beef cattle.
3	Two hundred (200) Missouri farmers will increase their knowledge of fescue toxicosis.
4	Two thousand (2,000) Missouri producers will install fencing and watering systems as a result of the MiG schools.
5	Ten thousand (10,000) producers will stockpile forage and develop specific pastures for summer grazing.
6	Ten thousand (10,000) producers will implement new forage management practices into their operation.

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

Public Policy changes

Government Regulations

Brief Explanation

High feed grain prices have altered the economic landscape such that forage management is more lucrative than ever. For instance, the value of a pound of gain to stocker animals is nearly double that of three years ago. In the dairy industry, producers using management-intensive grazing techniques are much better positioned than are their confinement counterparts to manage high feed prices.

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

Financial data from the Missouri pasture-based dairies participating in the financial summaries showed the average farm is expanding in cow numbers. In 2005 the average farm in the group marketed \$2,102 of milk per cow, had total income of \$2,310 per cow, with operating expenses averaging \$1,587 per cow. Operating margins per cow in 2005 were \$723.

Key Items of Evaluation