

Range Management

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Range 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
112	Watershed Protection and Management	40%		40%	
121	Management of Range Resources	60%		60%	
Total		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
Plan	11.2	0.0	7.3	0.0
Actual	16.5	0.0	20.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 220353	1890 Extension	Hatch	Evans-Allen
	0	445733	0
1862 Matching 220353	1890 Matching	1862 Matching	1890 Matching
	0	1990612	0
1862 All Other 1339239	1890 All Other	1862 All Other	1890 All Other
	0	4613963	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Primary activities in this program focused on development and conducting research and educational programs to support proper management and restoration of native rangelands for clientele. Applied research and result demonstrations to support improved rangeland management were also conducted. Training and support for county Extension agents and specialists are provided on appropriate and timely aspects of rangeland management. Emphasis is placed on continued development of appropriate publications, websites, online courses, and other teaching materials.

Work of the AgriLife Research and AgriLife Extension is conducted jointly where research-based information is generated and transferred to clientele.

2. Brief description of the target audience

The target audiences for this program include federal and state agencies, youth, and adults. The adult audiences specifically include traditional landowners, operators, absentee landowners, and "new" novice landowners that either just bought land or returned to their land after a period of time.

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	7000	21500	770	0
2007	11223	61841	627	0

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	4	218	222

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

of group educational sessions conducted.

Year	Target	Actual
2007	250	536

Output #2

Output Measure

of research-related publications.

Year	Target	Actual
2007	35	218

Output #3

Output Measure

of research-related projects.

Year	Target	Actual
2007	15	81

V(G). State Defined Outcomes

O No.	Outcome Name
1	% of Land Managers who report increased knowledge leading to better decision-making.
2	% of livestock producers who report increased knowledge of rangeland monitoring, watershed management, weed and brush control.
3	# Result demonstrations/applied research projects.

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.)

Brief Explanation

The first three-quarters of 2007 included abundant rainfall that resulted in tremendous grass production. However, the rains ceased late in the year. This, coupled with low livestock numbers and some early fronts with high winds and low humidities, resulted in an early and long fire season. Numerous wild fires have occurred in almost every part of the state. Most of these were small, but others burned thousands of acres. Fires requires three things: fuel, oxygen, and an ignition source. We can manage for the former and the latter.

AgriLife Extension Wildland Fire Educational program has preparedness, mitigation, response, and recovery components. During this past year the Wildfire Incident Response Team was organized. All appropriate, practical sources of wild land fire information in Texas was assembled and placed on the Agrilife Extension disaster website (Texas EDEN).

The incident Response Team was involved with the Governor's Disaster Group and the State Operation Center for Emergencies meetings in Austin were attended and we participated in two planning teleconferences. Situation reports were forwarded to appropriate Extension and other agency personnel as it is received. We also acted as a liasion to forward information on fire weather from the National Weather Service and NOAA, as well as coordinate activities with the Texas Forest Service.

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

1. Evaluation Studies Planned

Retrospective (post program)

Other (anecdotal)

Evaluation Results

Rangeland Herbicides 101 Outcome Program

Relevance:

To make informed decisions regarding brush and weed management using herbicides on the 90 million acres of rangeland in Texas, rangeland owners/managers must have a knowledge of herbicides available for rangeland use so that appropriate herbicides and spray additives can be selected. The goal of this program was to improve rangeland owner/manager knowledge an average of 30% across 11 teaching points focused on herbicides for specific uses, new herbicides available, spray additives, and active ingredient names to aid in herbicide selection.

Response and Results:

A PowerPoint presentation titled Rangeland Herbicides 101 was developed and presented by members of the program unit at 43 educational events. These presentations included 36 single-county and five multi-county events in nine Extension Districts and one statewide event.

Change in knowledge as a result of these presentations was measured using a retrospective-post evaluation instrument focused on 11 teaching points featured in the presentations. A total of 2,416 landowners and managers representing over 4.2 million acres attended these educational events. A total of 1,794 persons (74% of those attending events) returned the evaluation instrument.

Increase in knowledge averaged 57%, with a range of 48 to 76%, across the 11 teaching points measured in the evaluation instrument, exceeding the 30% goal set for the program. Increase in knowledge for all teaching points was statistically significant ($P < 0.0001$).

The evaluation instrument also asked, "Will the information presented help you make better decisions selecting and using herbicides on rangeland?" Eighty-eight percent of those returning the evaluation answered this question. Of those answering the question, 99.8% answered yes.

Key Items of Evaluation