

Natural Resource Management and Environmental Sciences in the Great Basin and Sierran Ecosystems

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Natural Resource Management and Environmental Sciences in the Great Basin and Sierran Ecosystems

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
111	Conservation and Efficient Use of Water			2%	
112	Watershed Protection and Management			15%	
121	Management of Range Resources			23%	
123	Management and Sustainability of Forest Resources			10%	
131	Alternative Uses of Land			4%	
133	Pollution Prevention and Mitigation			2%	
134	Outdoor Recreation			3%	
135	Aquatic and Terrestrial Wildlife			14%	
136	Conservation of Biological Diversity			2%	
206	Basic Plant Biology			4%	
213	Weeds Affecting Plants			2%	
301	Reproductive Performance of Animals			1%	
302	Nutrient Utilization in Animals			3%	
304	Animal Genome			1%	
305	Animal Physiological Processes			3%	
306	Environmental Stress in Animals			1%	
307	Animal Management Systems			1%	
311	Animal Diseases			7%	
605	Natural Resource and Environmental Economics			2%	
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	0.0	0.0	27.0	0.0
Actual	0.0	0.0	7.8	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 572770	Evans-Allen 0
1862 Matching 0	1890 Matching 0	1862 Matching 752255	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

To address these critical issues, NAES research will be conducted on evaluating long term vegetation changes in the Great Basin, measuring heavy metal contamination in Nevada's waterways, pheromone protection of forests, evaluating livestock grazing for noxious weed management, compatibility of wildlife and livestock grazing, evaluating post wildland fire restoration and grazing systems, evaluating forest wildfires and ecosystems recovery, studying the role of soil chemistry in natural production of perchlorate and soil transport properties using NAES field labs to conserve water and improve water quality and evaluating sage grouse and pygmy rabbit habitats and developing a conservation plan compatible with Nevada agriculture.

2. Brief description of the target audience

The target audiences for research and educational programming are livestock producers, veterinarians, environmentalists, local governments, Native American groups and agency personnel.

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	1200	4000000	300	500000
2008	1150	3500000	250	500000

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	176	
2008	0	59	59

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Peer reviewed scientific publications, publications in natural resource and environmental organization publications, presentations at scientific meetings, presentations at stakeholder, native american and agency meetings.

Year	Target	Actual
2008	22	25

V(G). State Defined Outcomes

O No.	Outcome Name
1	Peer reviewed journal articles, presentations at scientific meetings, articles in natural resource and environmental science magazines, presentations at stakeholder, native american and agency meetings.
2	Peer reviewed journal articles and trade journals, presentations at scientific, stakeholder, Native American, agency and local government meetings.
3	Peer reviewed journal articles and publications, presentations at scientific and stakeholder meetings, Native American, agency and government meetings
4	Peer reviewed publications in trade journals and articles, presentations at stakeholder, Native American, government agencies and scientific meetings
5	Presentations at scientific, stakeholder, Native American and agency meetings, peer reviewed journal articles, publications and trade journals
6	Peer reviewed articles and publications, presentations at stakeholder, Native American, agency and scientific meetings
7	Presentations at stakeholder, government agencies, scientific and Native American meetings, peer reviewed publications in trade journals
8	Presentations at scientific, local government agencies, Native American and stakeholder meetings, peer reviewed journal articles and publications in trade journals

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

Appropriations changes

Public Policy changes

Government Regulations

Competing Programmatic Challenges

Brief Explanation

Over the past five years, we have endured catastrophic fires at one of our remote field labs, and we had a flood in Reno that flooded our Main Station Field Lab in Reno, both of which directly effected our research productivity, financial status, and available resources. A decrease in appropriations could directly impact our ability to address all of our research priorities as would public policy changes.

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

1. Evaluation Studies Planned

Evaluation Results

Key Items of Evaluation