

Natural Resources & Environment

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Natural Resources & Environment

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
101	Appraisal of Soil Resources	5%		5%	
102	Soil, Plant, Water, Nutrient Relationships	5%		5%	
111	Conservation and Efficient Use of Water	10%		10%	
112	Watershed Protection and Management	15%		15%	
122	Management and Control of Forest and Range Fires	5%		5%	
123	Management and Sustainability of Forest Resources	25%		25%	
124	Urban Forestry	5%		5%	
133	Pollution Prevention and Mitigation	10%		10%	
135	Aquatic and Terrestrial Wildlife	15%		15%	
605	Natural Resource and Environmental Economics	5%		5%	
	Total	100%		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	15.0	0.0	12.0	0.0
Actual	17.4	0.0	23.3	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 279708	1890 Extension	Hatch 342335	Evans-Allen 0
1862 Matching 211589	1890 Matching 0	1862 Matching 347682	1890 Matching 0
1862 All Other 1643143	1890 All Other 0	1862 All Other 7849674	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- 4-H Rice for Ducks programs
- Arkansas Acres for Wildlife program
- Develop educational materials, curriculum, & resources
- Geographic Information Systems (GIS) and Geographic Positioning Systems (GPS) training
- Site visits, one-on-one consultations
- Workshops
- Field Days
- Farm Visits
- Demonstrations
- Educational Meetings
- News-articles
- Newsletter
- Web-based Education

2. Brief description of the target audience

- 4-H Club Youth
- Agri Business
- Row Crop Agricultural Producer Organizations
- Row Crop Agricultural Producers
- Certified Crop Advisors
- Conservation District Directors
- Consultants
- Forest Landowner Groups
- Forest Industry
- Loggers
- Natural Resource Professionals
- Landowners
- Homeowners
- School Teachers
- State & Federal Agency personnel
- Watershed Organizations
- Wildlife Organizations
- Private nutrient applicator
- Commercial nutrient applicator
- Livestock producers
- Livestock industry personnel
- Livestock producer organizations
- General public
- Researchers
- Policy makers
- Students
- Extension faculty & staff
- Teaching faculty
- Research funding personnel and agencies

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	186000	3000	10000
2008	14422	54880	2640	229

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	6	7	
2008	11	38	49

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of plan writers trained

Year	Target	Actual
2008	70	12

Output #2

Output Measure

Number of private nutrient applicators trained

Year	Target	Actual
2008	1200	35

Output #3

Output Measure

Number of commercial applicators trained

Year	Target	Actual
2008	120	5

Output #4

Output Measure

Number of courses held for registered foresters

Year	Target	Actual
2008	13	18

Output #5

Output Measure

Number of Natural Resource Educational Meetings

Year	Target	Actual
2008	45	119

Output #6

Output Measure

Number of Natural Resource Demonstrations

Year	Target	Actual
2008	25	98

Output #7

Output Measure

Number of Natural Resource Field Days

Year	Target	Actual
2008	8	11

Output #8

Output Measure

Number of Natural Resources & Environment clientele contacts from education classes, workshops, group discussions, one-on-one interventions, demonstrations, and other educational methods

Year	Target	Actual
2008	8000	17235

Output #9

Output Measure

Number of Natural Resources & Environment education classes, workshops, group discussions, one-on-one interventions, demonstrations, and other educational events

Year	Target	Actual
2008	2290	2510

Output #10

Output Measure

Number of 4-H Rice for Ducks Program participants

Not reporting on this Output in this Annual Report

Output #11**Output Measure**

Number of Acres enrolled in Arkansas Acres for Wildlife

Year	Target	Actual
2008	1700000	1240157

Output #12**Output Measure**

Number of Natural Resource Workshops

Year	Target	Actual
2008	40	69

Output #13**Output Measure**

Number of Educational Materials & Curriculum delivered

Year	Target	Actual
2008	8	55055

Output #14**Output Measure**

Number of Natural Resource Newsletters

Year	Target	Actual
2008	4	44049

Output #15**Output Measure**

Web-Based Education: Number of web modules, sites

Year	Target	Actual
2008	2	14

Output #16**Output Measure**

Number of Abandoned Pesticide Collection Events

Year	Target	Actual
2008	5	0

Output #17**Output Measure**

Number of municipal separate storm-sewer system (MS4) jurisdictions educated on stormwater management regulations, planning, and implementation.

Year	Target	Actual
2008	4	16

Output #18**Output Measure**

Number of bioenergy educational events.

Year	Target	Actual
2008	{No Data Entered}	18

Output #19**Output Measure**

Number of ecosystem services program events.

Year	Target	Actual
2008	{No Data Entered}	5

V(G). State Defined Outcomes

O No.	Outcome Name
1	Number of landowners indicating an increased understanding of natural resource management
2	Number of acres impacted by Natural Resources & Environmental educational efforts
3	Number of clientele who adopt Best Management Practices in Natural Resource management that protect and enhance water quality.
4	Number of Landowners who adopt wildlife management practices that enhance wildlife habitat or prevent & control wildlife damage to property
5	Number of pounds of chemicals collected in Abandoned Pesticide Collection Events
6	Number of registered foresters maintaining CFEs

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 Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)
- Other (Budget constraints and emerging technologies)

Brief Explanation

Program delivery was shifted several times through the year because of the need to supply immediate information to constituents and county agents. Additionally, programs have been refocused to deal with the broad range of biofuel topics that require a global shift of effort. A broad scale effort to define appropriate technologies and their adaptability to Arkansas conditions has shifted much of our research effort to these topic areas.

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)

Evaluation Results

Field days, workshops, and other educational events are evaluated for content and future direction during or immediately after the program. Evaluations are usually administered by the program coordinators including county agents, Extension faculty, and other program coordinators. Information gathered from evaluations is used to plan future programs, collect information about program effectiveness, and gauge participants' interest in other topics. Much of this data is then entered into an Extension database and then aggregated across individuals and programs. The reports generated provide information important for determining future educational programs.

Many educational meetings and workshops are developed collaboratively with industry, agency, and other stakeholders. These groups meet periodically to assess and evaluate programs resulting in either new and/or modified programs.

Individual faculty members are also evaluated to determine program direction and modification.

Key Items of Evaluation

Program participant evaluations along with cooperator and internal reviews will assist in determining the future direction of all programs.