

Natural Resources and Environment

Natural Resources and Environment

V(A). Planned Program (Summary)

1. Name of the Planned Program

Natural Resources and 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	10%	10%	10%	10%
102	Soil, Plant, Water, Nutrient Relationships	10%	10%	10%	10%
104	Protect Soil from Harmful Effects of Natural Elements	10%	10%	10%	10%
111	Conservation and Efficient Use of Water	10%	10%	10%	10%
112	Watershed Protection and Management	10%	10%	10%	10%
123	Management and Sustainability of Forest Resources	10%	10%	10%	10%
124	Urban Forestry	10%	10%	10%	10%
131	Alternative Uses of Land	10%	10%	10%	10%
133	Pollution Prevention and Mitigation	10%	10%	10%	10%
135	Aquatic and Terrestrial Wildlife	10%	10%	10%	10%
Total		100%	100%	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	32.5	1.0	23.6	0.9
Actual	27.4	2.0	23.6	0.9

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

Extension		Research	
Smith-Lever 3b & 3c 487195	1890 Extension 252600	Hatch 493578	Evans-Allen 132964
1862 Matching 564938	1890 Matching 505200	1862 Matching 1150936	1890 Matching 378638
1862 All Other 1542908	1890 All Other 106200	1862 All Other 6246570	1890 All Other 246127

V(D). Planned Program (Activity)

1. Brief description of the Activity

Develop and deliver educational programs such as short courses, workshops, field days and tours, and seminars, conduct applied research and link with Extension, develop and maintain demonstration areas, develop collaborative partnerships with government officials, state agencies, and non-governmental organizations, develop and disseminate educational materials such as Extension bulletins, journal articles, conference proceedings, trade journal articles, and DVD's, and develop and maintain web-based educational materials such as short courses, web sites, and discussion boards.

2. Brief description of the target audience

Farmers, forest owners, loggers, Christmas tree growers, youth, homeowners, mill owners and workers, private consultants and companies, local governmental officials, waste water treatment operators, state and federal agencies, nongovernmental organizations, professional associations and societies, and community groups.

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	500000	500000	5000	5000
2007	69544	213117	20040	61412

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	35	58	93

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of educational programs offered

Year	Target	Actual
2007	2000	976

Output #2

Output Measure

External contract and grant funds received

Year	Target	Actual
2007	1500000	4563343

Output #3

Output Measure

Number of educational materials and curriculars developed

Year	Target	Actual
2007	25	25

Output #4

Output Measure

Number of applied research projects

Year	Target	Actual
2007	15	81

V(G). State Defined Outcomes

O No.	Outcome Name
1	Number of individuals with increased knowledge of best management practices in forestry or agriculture
2	Number of individuals with increased knowledge of sustainable landscape practices
3	Number of individuals adopting at least one improved management practice toward achieving sustainability
4	Number of individuals adopting one or more sustainable landscape management practices
5	Number of mills reporting increased profitability, improved safety indicators, or improved efficiency
6	Number of agricultural or forest acres with improved management practices

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
------	---------------------	--------

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
---------	----------------

V(H). Planned Program (External Factors)

External factors which affected outcomes

Natural Disasters (drought, weather extremes, etc.)

Economy

Brief Explanation

The entire Commonwealth was designated as a disaster area due to the drought. The slowing economic conditions have had a great impact on the forest products industry in the state.

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

1. Evaluation Studies Planned

After Only (post program)

Retrospective (post program)

Before-After (before and after program)

During (during program)

Time series (multiple points before and after program)

Case Study

Comparisons between program participants (individuals, group, organizations) and non-participants

Comparisons between different groups of individuals or program participants experiencing different levels of program intensity.

Comparison between locales where the program operates and sites without program intervention

Evaluation Results

The outputs from the programs and consultations offered led to over 50 individuals trained to develop forest stewardship plans, 2,000 direct contacts and nearly 12,000 individuals who were indirectly contacted that indicated they increased their awareness of the benefits and opportunities of having a plan. Twenty-five stewardship plans were implemented from the efforts of individuals supported with RREA funding. Over 650 individuals indicated they implemented at least one new practice due to the training and it is estimated that over 42,000 acres were impacted, resulting in over one million dollars earned or saved due to changes in land management practices. Over 300 individuals directly participated in wildlife training, while another 5,000 were indirectly touched by VCE efforts. There were two management plans for wildlife/fisheries developed from these efforts impacting 15,000 acres and resulting in \$80,000 in income or savings to participants. Of the 12 educational events that targeted invasive species, 293 direct contacts increased their awareness and another 20,000 indirectly increased their awareness of the subject. Over 100 landowners implemented at least one new practice to reduce the spread or eliminate invasive species on their land impacting nearly 4,000 acres with a savings of over \$200,000. Over 1,200 individuals participated in events to increase the economic vitality of Virginia. Another 5,000 individuals indirectly increased their awareness of the importance of the forest products industry to Virginia. Over 225 community leaders were impacted and increased their awareness of opportunities for Virginia. At least nine new businesses were created or expanded due to these efforts resulting in over 1.5 million dollars in additional revenue for the businesses. One major employer has the potential to add over 1,000 jobs in southside Virginia by the year 2010. Over 1,100 citizens and community leaders increased their awareness of natural resource public policy issues in the state, with at least 350 who increased their awareness of community based decision-making. These individuals impacted over 10,000 acres of land. Over 1,500 individuals were directly or indirectly increased their awareness of land conversion/fragmentation issues in the state with 32 indicating they implemented at least one new practice impacting over 7,000 acres. Over 500 members from diverse audiences increased their awareness of natural resource issues in Virginia, with 57 indicating they implemented one new forest landowner practice impacting 2,500 total acres.

Key Items of Evaluation

See above.