Soil and Water Quality

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Soil and Water Quality

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
133	Pollution Prevention and Mitigation			100%	
	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	0.0	0.0	5.0	0.0
Actual	0.0	0.0	4.8	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	0	52770	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	1611136	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	20309	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

The expected outputs are scientific publications, newsletters, and fact sheets; talks and interviews; and numbers of state residents served directly by analyzing soil samples or identifying invasive aquatic weeds. All activities, services, or events are designed to disseminate new information to stakeholders and to seek their input on the research program. Interactions with members of lake associations in group discussion, workshops, and one-on-one interventions are particularly important because permission must be granted to perform experiments on removing aquatic weeds from lakes. Limited diagnostic services are available to determine the extent of pollution problems and to determine the success of field experiments. Information will also be made available to all stakeholders on the Station website, in newsletters and fact sheets, and in displays at the open houses or at agricultural fairs. It is also expected that there will be interest from reporters to write articles on the research, thereby enhancing the educational process. Results of these output activities will lead to specific outcomes, such as removing pesticides from soil and water, clearing lakes and ponds of invasive aquatic plants, and preventing pollution.

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2. Brief description of the target audience

A diverse group of stakeholders, including under-represented and under-served persons, is targeted. It is expected that the following stakeholder groups will directly benefit from the research: farmers, lake associations, homeowners, water company officials, environmentalists, extension specialists, corporate and municipal officials, and pesticide producers. Special efforts will be made to contact and include members of minority organizations, women, and children to provide information and to participate in open house events.

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	1000	500	75	50
2007	7829	9183	201	575

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	5	5

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

# of research papers

Year	Target	Actual
2007	2	8

Output #2

Output Measure

# of talks and interviews given to stakeholders

Year	Target	Actual
2007	30	105

Output #3

Output Measure

# of diagnostic tests performed

Year	Target	Actual
2007	1000	2877

V(G). State Defined Outcomes

O No.	Outcome Name
1	# of homeowners gaining knowledge on pesticide pollution and invasive aquatic plants
2	# of homeowners gaining knowledge on soil and water quality

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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

Economy
Appropriations changes
Other (Unexpected changes in workforce)

Brief Explanation

There were no external factors that affected outcomes.

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

1. Evaluation Studies Planned

Before-After (before and after program)
During (during program)

Evaluation Results

quot;Before and after" and "during" evaluations were conducted to document increased knowledge of aquatic plants, whereas "during" evaluations were most helpful in assessing advanced knowledge of stakeholders on soil and water quality issues. Of the 138 persons trained on aquatic weeds, 86 (62%) replied verbally or in writing that the new knowledge they gained was very useful.

Key Items of Evaluation

Written information on survey forms following workshops (on-site) and verbal feedback from interviews with volunteers and other stakeholders (unstructured) were important information collection methods for program assessments. The Science Citation Index verified that 59 published articles written by 4 scientists over 25 years on the general topic of soil and water quality, were being cited by scientists in other institutions (total cumulative citations = 2,512).