

Soil, Water, and Air

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Soil, Water, and Air

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%			
102	Soil, Plant, Water, Nutrient Relationships	40%			
104	Protect Soil from Harmful Effects of Natural Elements	10%			
111	Conservation and Efficient Use of Water	15%			
112	Watershed Protection and Management	15%			
141	Air Resource Protection and Management	10%			
	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	8.0	0.0	0.0	0.0
Actual	7.3	0.0	0.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 231933	1890 Extension	Hatch	Evans-Allen
	0	0	0
1862 Matching 115966	1890 Matching	1862 Matching	1890 Matching
	0	0	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)

1. Brief description of the Activity

- The guidelines of the regulatory laws for water quality were compiled and distributed among the agricultural agents. •
- Short courses and trainings were offered. •
- On-site farm visits for water quality, watershed protection, and fertilization and soil conservation practices. •
- Recommended practices for soil conservation and fertilization were established. •
- Several collaborations were made with government agencies (NRCS, PR Department of Natural Resources & Environment, USDA Forest Service, PR Department of Agriculture, and Soil Conservation District Association). •
- We distributed information at agricultural fairs and festivals on water and air

2. Brief description of the target audience

Farmers (includes small family farms, large scale farm business operation), farm workers, government professionals.

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	3000	2000	0	0
2007	3961	1398	0	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	2	0	2

V(F). State Defined Outputs**Output Target****Output #1****Output Measure**

Number of trainings offered on soil, water, and air.

Year	Target	Actual
2007	15	20

Output #2**Output Measure**

Number of farmers trained on agricultural practices for air and water quality.

Year	Target	Actual
2007	100	77

Output #3**Output Measure**

Number of people trained on environmental regulations for soil, air and water quality.

Year	Target	Actual
2007	200	237

Output #4**Output Measure**

Number of farmers trained on soil fertility.

Year	Target	Actual
2007	200	358

Output #5**Output Measure**

Number of farmers trained on soil conservation practices.

Year	Target	Actual
2007	100	170

Output #6**Output Measure**

Number of people trained on watershed protection.

Year	Target	Actual
2007	50	40

Output #7**Output Measure**

Number of people trained on conservation and effective use of water resources.

Year	Target	Actual
2007	200	391

V(G). State Defined Outcomes

O No.	Outcome Name
1	Number of farmers that adopted the recommended practices for air and water quality
2	Number of farmers that comply with the soil, air, and water regulations.
3	Number of farmers that adopted the fertilization practices.
4	Number of farmers that adopted one or more soil conservation practices.
5	Number of farmers that established practices for the protection of watersheds.
6	Number of persons that adopted practices to improve water resources.

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

Government Regulations

Brief Explanation

The Environmental Quality Board revised the field standards for agricultural waste management. There are more regulations that require capital investment to keep the business operating. Also, the Department of Agriculture reduced the incentives to the farmers due to economic problems. The costs of some inputs increased affecting the production. The prices at the farm level are the same and the competition with products that come from other external markets at lower prices cause a reduction of income to our farmers; as a result, less farmers adopt the practices.

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

1. Evaluation Studies Planned

Evaluation Results

Key Items of Evaluation