

Plant Health and Pest Management

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Plant Health and Pest Management

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
102	Soil, Plant, Water, Nutrient Relationships	5%			
205	Plant Management Systems	10%			
211	Insects, Mites, and Other Arthropods Affecting Plants	10%			
212	Pathogens and Nematodes Affecting Plants	15%			
213	Weeds Affecting Plants	5%			
214	Vertebrates, Mollusks, and Other Pests Affecting Plants	5%			
215	Biological Control of Pests Affecting Plants	10%			
216	Integrated Pest Management Systems	40%			
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	3.0	0.0	0.0	0.0
Actual	2.0	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 144160	1890 Extension 0	Hatch 0	Evans-Allen 0
1862 Matching 17650	1890 Matching 0	1862 Matching 0	1890 Matching 0
1862 All Other 66108	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

A comprehensive web based pest survey list for Guam has been established and has been continuously updated. Provided one-on-one consulting on IPM to individuals who have problems with crops, weeds and/or pests. A plant health clinic has been established and took a lead role in diagnosing plant problems and provided outreach by providing space, equipment, and expertise for publications, courses and workshops. Through the Pesticide Applicator Training program instructed applicators on the safe handling of pesticides and administered certificates.

The Plant Health group hosted a four day IPM training workshop for the Micronesian Islands. Trainers and trainees from Palau, Yap, Pohnpei, Kosrae, Chuuk, and the Marshall Islands as well as trainers from the University of Guam Cooperative Extension Services Plant Health group participated in the workshop. Training was conducted in the areas of IPM practices and techniques as well as pesticide usage and major crop pests of the Micronesian islands. Ninety percent of the trainees showed a substantial knowledge increase from pre-test to post-test scores.

Grants awarded to the Plant Health group in 2008 included a USDA Western Sustainable Research and Education (WSARE) Research and Education grant for \$140,000 to study the decline of Casuarina equisetifolia (Ironwood Tree) on Guam and the Northern Marianas Islands; a WSARE Professional Development grant for \$50,000 to train agriculture professionals on Guam in plant soil nutrition and its relationship to disease suppression; a WSARE Farmer/Rancher grant for \$14,000 to study the use of aquaculture effluent for growing papaya; and a \$254,000 USDA Forestry Service grant and a \$190,000 USDA APHIS grant for the control/eradication of the Coconut Rhinoceros beetle on Guam.

2. Brief description of the target audience

The target audience for this program includes local farmers, homeowners, nurseries, landscapers and golf course superintendents and their crews, school children, and government 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	330	430	135	435
2008	4875	74000	2517	8253

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	0	
2008	0	2	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

of research papers

Year	Target	Actual
2008	1	10

Output #2

Output Measure

of research citations

Year	Target	Actual
2008	5	20

Output #3

Output Measure

of extension fact sheets or articles

Year	Target	Actual
2008	3	3

Output #4

Output Measure

of workshops/trainings/classes

Year	Target	Actual
2008	9	22

Output #5

Output Measure

of brochures

Year	Target	Actual
2008	4	4

Output #6

Output Measure

of research or new technology reports

Year	Target	Actual
2008	2	3

Output #7

Output Measure

of one-on-one interventions

Year	Target	Actual
2008	175	3810

Output #8

Output Measure

of surveys

Year	Target	Actual
2008	2	10

Output #9

Output Measure

of focus groups

Year	Target	Actual
2008	0	1

Output #10

Output Measure

of news media activities (TV and radio)

Year	Target	Actual
2008	1	19

V(G). State Defined Outcomes

O No.	Outcome Name
1	% of participants gaining skills in identification of insects and related pests
2	% of participants gaining skills in identification of plant diseases
3	% of participants gaining skills in identification of weeds
4	% of participants gaining knowledge about pesticides and their application
5	% of participants reducing indiscriminate use of chemical pesticides
6	% of participants adopting some established IPM 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
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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

Competing Public priorities

Brief Explanation

{No Data Entered}

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

1. Evaluation Studies Planned

Before-After (before and after program)

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

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}