

# Development of treatments to manage quarantine insects in field nursery production

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## V(A). Planned Program (Summary)

### 1. Name of the Planned Program

Development of treatments to manage quarantine insects in field nursery production

## V(B). Program Knowledge Area(s)

### 1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
211	Insects, Mites, and Other Arthropods Affecting Plants				100%
	<b>Total</b>				100%

## V(C). Planned Program (Inputs)

### 1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	0.0	0.0	4.6
<b>Actual</b>	0.0	0.0	0.0	4.1

### 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	0	135131
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	0	55642
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	70576

## V(D). Planned Program (Activity)

### 1. Brief description of the Activity

Research experiments will be conducted with labeled and experimental insecticide compounds that will lead to new or improved fire ant and Japanese beetle quarantine treatments for field nursery plants. The research will be used to expand grower options in the Federal Imported Fire Ant Quarantine and the U.S. Domestic Japanese Beetle Harmonization Plan. The TSU Entomology Program will partner with USDA-ARS and USDA-APHIS collaborators to achieve these outcomes.

### 2. Brief description of the target audience

Nursery producers and policy makers (i.e., regulatory entities involved with decision making on quarantine treatment approval). Pesticide and chemical manufacturers.

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

**Target for the number of persons (contacts) reached through direct and indirect contact methods**

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	0	0	0	0
2008	0	0	0	0

**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**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>	0	2	
2008	0	2	2

**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

Refereed publications pertaining to research findings

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	2	2

**Output #2**

**Output Measure**

New techniques for control of Japanese beetle and imported fire ant

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2008	1	1

**V(G). State Defined Outcomes**

<b>O No.</b>	<b>Outcome Name</b>
1	Numerical increase in grower awareness via educational talks
2	Number of educational trade articles to increase grower awareness
3	Number of refereed manuscripts produced
4	Development of an improved treatment method for Japanese beetle and imported fire ant
5	Approval of new insecticides or lower rates of existing insecticides in Fire Ant and Japanese Beetle quarantines
6	Insecticide label changes based on research

**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.)

Government Regulations

**Brief Explanation**

{No Data Entered}

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

**1. Evaluation Studies Planned**

Before-After (before and after program)

During (during program)

**Evaluation Results**

{No Data Entered}

**Key Items of Evaluation**

{No Data Entered}