Project Coordinator: Larry Bledsoe

State: Indiana

Project: Giant African Land Snail Education and Outreach

Project Category (Part I, II, or III – see page 2-1 of CAPS Guidelines):
Part II

Pests (include survey targets described in Part I, or Core, category):
Scientific Name: Common Name:
Achatina fulica (Bowditch) Giant African land snail

I) OBJECTIVES AND NEED FOR ASSISTANCE:

Giant African land snail, *Achatina fulica* (Bowditch), is a vector of *Angiostrongylus cantonensis* (Nematoda) causing eosinophilic meningitis (or cerebral angiostrongyliasis) in humans. The spread of the disease has been correlated with the spread of *A. fulica*. Achatinids carry other diseases that affect humans and animals. Although Giant African Land Snail ecological host range does not include Indiana, over 200 snails in 2004 were collected and eradicated from homeowners, teachers, trade shows, and pet stores. The objective is to educate the specific target segments of the general populace as to the dangers which Giant African Land Snails present and elicit voluntary reporting of finds, since no directed survey is to take place.

II) RESULTS OR BENEFITS EXPECTED:

This project will provide information about the presence or absence of a harmful mollusk not known to occur in Indiana. Knowledge of the existence of this pest species and educational outreach will be crucial to the human health and safety of the residence in Indiana.

III) APPROACH:

Educate the specific target segments of the general populace as to the dangers which Giant African Land Snails present and elicit voluntary reporting of finds, since no directed survey is to take place. Educational material (fact sheets and posters) will be mailed to the 92 Purdue University Extension Educators in Indiana, 92 County Health Departments in Indiana, and 294 school districts in Indiana (targeting science teachers). Educational presentations will be made available to the Hoosier Association of Science Teachers, Inc., Master Gardeners, 4-H, and Extension Educators. Larry Bledsoe will coordinate collections and destruction of suspect specimens through USDA APHIS PPQ Officers and local government agencies. Larry Bledsoe will coordinate and implement the education and outreach for Giant African Land Snail. Jodie Ellis will assist in the educational outreach. All records are to be entered into the NAPIS database by December 1 of the year of the survey, so these data are included in the yearly Plant Board Report.

A) The Cooperator and APHIS mutually agree to/that:

i. Maintain a State Cooperative Agricultural Pest Survey Committee that will meet at least once a year to discuss fostering the goals of CAPS.
ii. Work together in carrying out educational surveys, G.A.L.S. collection, and data collection, setting emphasis on Giant African Land Snails that may pose an immediate risk to the citizens of the state of Indiana and the United States.

iii. Have representation at National and/or Regional annual planning meetings.

iv. Utilize Cooperator and APHIS program funding, as outlined in the Financial Plan, within the authorized parameters to support survey and detection activities. In addition, specific appropriated funding in the level authorized by the PPQ Eastern Region will be dedicated to the delivery of CAPS objectives listed above.

B) The Cooperator will:

i. Educate the specific target segments of the general populace as to the dangers which Giant African Land Snails present and elicit voluntary reporting of finds, since no directed survey is to take place. Educational material (fact sheets and posters) will be mailed to the 92 Purdue University Extension Educators in Indiana, 92 County Health Departments in Indiana, and 294 school districts in Indiana (targeting science teachers). Educational presentations will be made available to the Hoosier Association of Science Teachers, Inc., Master Gardeners, 4-H, and Extension Educators. Larry Bledsoe will coordinate collections and destruction of suspect specimens through USDA APHIS PPQ Officers and local government agencies. Larry Bledsoe will coordinate and implement the education and outreach for Giant African Land Snail. Jodie Ellis will assist in the educational outreach. All records are to be entered into the NAPIS database by December 1 of the year of the survey, so these data are included in the yearly Plant Board Report.

ii. Provide the following resources
   (1) List types of personnel and what they will be doing.
      (a) Are they currently employed? N/A
      (b) Will employees need to be hired? Are they full time or part time, and what mechanism will be used to hire them? N/A
      (c) Are they paid or volunteer? N/A

   (2) Type of equipment provided by Cooperator for personnel
      (a) Identify major equipment needs: N/A
      (b) Use of the equipment purchased: N/A
      (c) Purchased with APHIS funds? N/A
      (d) Method of procurement: N/A
      (e) Method of disposition: N/A

   (3) Provide office space in the Department of Entomology at Purdue University with associated services and utilities, computers and other office equipment to for the use of Cooperator personnel in entering survey data into the NAPIS database

   (4) Vehicles for Cooperator personnel in conducting field surveys and collecting data.

   (5) Supplies
      (a) Trapping supplies for field surveys? N/A
      (b) Special Supplies: N/A
Method of procurement: N/A

Contracts:
(a) Who will handle contractual needs? Cheryl Bluett in the Business Office in the Department of Entomology at Purdue University.
(b) Cooperator Procurement activities shall be in accordance with A-102 and A-110.
(c) Special requirements: N/A

Reports – submit all reports to the APHIS Authorized Department Officer’s Designated Representative (ADODR). Reports include:

(1) Narrative accomplishment reports (Accomplishment Report – Appendix H of the ER CAPS Guide) in the frequency and time frame specified in the Notice of Award, Article 4.
(2) Financial Status Reports, SF-269, in the frequency and time frame specified in the Notice of Award, Article 4.

Adhere to APHIS ADP security guidelines as referenced in the Notice of Award when entering pest survey data and transmitting it to NAPIS.

C) APHIS will:

i. List any activities that are specific to APHIS, e.g., provide training, provide forms, review data. Provide any new information that becomes available on Giant African Land Snail, provide appropriate forms, and review the data

ii. Provide the following resources:
   (1) List types of personnel and what they will be doing: USDA APHIS PPQ officers will help collect specimens. Samples will then be sent to the Indiana CAPS SSC for further identification.
   (2) Federal Equipment for its personnel: N/A
   (3) Federal Equipment for use of the Cooperator personnel, e.g. vehicles: N/A
   (4) Funds to the Cooperator to cover costs outlined in the Financial Plan. In addition, specific appropriated funding, in the level authorized by the APHIS Eastern Region, will be dedicated to the delivery of CAPS objectives listed above.
   (5) Provide educational outreach resources (ex. fact sheets) for survey.

D) OTHER PARTIES TO WHO WILL WORK ON THE PROJECT:

i. Discuss interaction with other contributing parties to this effort. What is their role? Note that the State and APHIS do not have authority to commit other parties unless they have contracts, subgrants, or other such legally binding authority to do so: N/A

ii. List all who will work on the project:
   (1) Jodie Ellis
   (2) IDNR nursery inspectors
   (3) Extension personnel from Purdue University.

iii. Describe the nature of their effort:
   (1) Source of educational outreach.

iv. Contribution:
   (1) These cooperators will contribute time help to provide educational outreach by the Indiana SSC.
IV) QUANTITATIVE PROJECTION OF ACCOMPLISHMENTS TO BE ACHIEVED:

No directed survey will take place; however, suspect specimens will be collected and eradicated. Education is the key component of this project. All records are to be entered into the NAPIS database by December 1 of the year of the survey, so these data are included in the yearly Plant Board Report.

V) DATA COLLECTION AND MAINTENANCE:

Who has the responsibility for delivering what data and to whom and when.

Larry Bledsoe is responsible for entering survey data in NAPIS. All records are to be entered into the NAPIS database by December 1 of the year of the survey, so these data are included in the yearly Plant Board Report.

A) Follow the guidelines in Appendix D of the ER CAPS Guide for the correct NAPIS language reporting requirements.

B) Identify the kind of data to be collected: Presence or absence of the Giant African Land Snail.

C) How will the data be maintained: Excel spread sheet

D) Establish criteria to evaluate the project:
   i. Results: Completed survey and outreach efforts
   ii. Successes: Survey data complete and entered into NAPIS

E) Methodology used to determine if:
   i. Identified needs are met: Check all data is in database
   ii. Results and benefits are achieved: Review data and use for planning further surveys and educational efforts

VI) GEOGRAPHIC LOCATION OF PROJECT:

No directed survey will take place; however, suspect specimens will be collected and eradicated. Education is the key component of this project. All records are to be entered into the NAPIS database by December 1 of the year of the survey, so these data are included in the yearly Plant Board Report.

A) Identify the type of terrain (cropland, rangeland, woodland, etc.): N/A

B) Identify features which may have an impact on the project or activity:
   i. Rivers, lakes, etc: N/A
   ii. Wildlife sanctuaries: N/A

VII) TAXONOMIC SUPPORT:

In order to assure adequate taxonomic support for the CAPS program, the ER Regional CAPS Committee needs you to address this support in your work plans. The six data items needed to manage identification services are listed below. Note: All work plans must – provide the following (A – F) for each survey.

If in A you request taxonomic support the ER CAPS Committee and PPQ’s National Identification Services will use the information you provide in B – F to assign your survey samples to the appropriate taxonomic personnel of institutions.

A) Person/institution that will screen samples for target pests OR request for taxonomic support:
i. Larry Bledsoe. We request taxonomic support for final confirmation of identification from national identifier for new state and county records.

B) List of target pests by scientific name:

<table>
<thead>
<tr>
<th>Scientific Name</th>
<th>Common Name</th>
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<tbody>
<tr>
<td><em>Achatina fulica</em> (Bowditch)</td>
<td>Giant African land snail</td>
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</tbody>
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C) Survey dates: January through December
D) Number of traps, visual surveys, etc: N/A
E) Number of collections: N/A