

## CAPS Work Plan for Calendar Year 2008

<b>Cooperator:</b>	<b>Illinois Natural History Survey</b>		
<b>State:</b>	<b>Illinois</b>		
<b>Project:</b>	<b>Part II Workplan - Giant Hogweed and Invasive Plant Survey and Outreach</b>		
<b>Project Coordinator:</b>	<b>Kelly Cook</b>		
<b>Contact Information:</b>	<b>Address:</b>	<b>1816 S. Oak St. Champaign, IL 61820</b>	
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### I) OBJECTIVES AND NEED FOR ASSISTANCE

Many invasive plants are first brought to the United States for food, fiber, and/or ornamental purposes. An estimated 5,000 non-native plants have escaped and now exist in the U.S. natural ecosystems, slowly overtaking native species. The state of Illinois is no exception. Autumn olive, kudzu, multiflora rose, garlic mustard, and oriental bittersweet are just a few of the plants found around the state. Another invasive plant, *Heracleum mantegazzianum* was first identified in Illinois in 2006 in Lake and Cook counties. In addition to out competing native plants, giant hogweed is considered a public health hazard. Skin contact with the plant sap from giant hogweed can produce painful blisters. Giant hogweed is included on the Federal Noxious Weed List and the National CAPS priority list.

The objective of this study is to identify locations of *H. mantegazzianum* and its distribution in the state of Illinois. We will work in conjunction with the River to River Cooperative Weed Management Area to survey areas in southern Illinois for giant hogweed and other invasive weeds. Specifically, targeted areas will consist of Alexander, Gallatin, Hardin, Jackson, Johnson, Massac, Pope, Pulaski, Saline, Williamson, and Union counties. Other sites that are identified with new invasive weeds to the state of Illinois will included in this survey.

We propose to develop and distribute educational materials that will provide information such as identification, history, and management of invasive plants. These educational materials will be distributed throughout the survey region and will serve, along with other educational efforts, as means of encouraging landowners and other interested persons to submit any suspected infestations of these new invasive plants. Funding will be needed to design and print these publications. This survey will require some travel; vehicle operation, mileage, and supplies associated with the travel are requested.

## II) RESULTS OR BENEFITS EXPECTED

**The Cooperator seeks to conduct a cooperative agricultural pest survey program which is expected to result in:**

The Cooperator seeks to conduct a cooperative agricultural pest survey program aimed at the detection of *H. mantegazzianum* and other invasive plants. All survey data generated from this effort will be entered into the NAPIS database according to NAPIS reporting requirements outlined in the 2008 National CAPS Guidelines. Outreach materials will be developed for public distribution.

## III) APPROACH

Visual surveys will be conducted for the detection of *H. mantegazzianum* in the 11 counties consisting of the River to River Cooperative Weed Management Area (Alexander, Gallatin, Hardin, Jackson, Johnson, Massac, Pope, Pulaski, Saline, Williamson, and Union counties). Distribution will be recorded and mapped for giant hogweed and other new invasive plants in the previously defined area. Other species to be included are Chinese yam, Japanese knotweed, mile-a-minute vine, hydrilla, and Japanese hops. In northeastern Illinois, the Illinois CAPS program will continue to utilize The New Invaders Watch Group to monitor for new populations of invasive weeds. A main focus of this project will be outreach. Informational fact sheets and brochures will be printed not only to increase awareness and understanding on invasive plants, but also aid in the identification of exotic species, their modes of invasion, and control measures to limit their spread. This project will be co-coordinated by SSC Kelly Cook and Christopher Evans, River to River CWMA Coordinator.

### **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 field surveys, trapping, and data collection, setting emphasis on pest/diseases particularly identified (**see attached list**), that may pose an immediate risk to the agriculture of this state 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) 

<p>1. Provide a State Survey Coordinator responsible for coordinating and completing all activities outlined in this Part II CAPS Work Plan. The SSC will coordinate survey activities and ensure data entry, management, and quality. The SSC will act as liaison with the State PPQ Office (including the SPHD and PSS) and Illinois Department of Agriculture, the University of Illinois, and other cooperators in the development of exotic pest surveys and management plans. More specifically, the Cooperator will:</p> <ul style="list-style-type: none"><li>i. Work with River to River CWMA coordinator for the duration of the survey, which is expected to begin in late June and be completed by late September.</li><li>ii. Work with River to River CWMA coordinator to pre-screen target species. SSC Cook will submit suspect specimens along with PPQ Form 391 to Rodney W. Young, Botanist, USDA National Identification Services.</li><li>iii. Be responsible for purchasing supplies related to pest survey.</li><li>iv. Ensure that all documents, forms, and reports are processed and filed according to schedule.</li></ul>
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ii) Provide the following resources:

**(1) List types of personnel and what they will be doing.**

The Illinois SSC will coordinate survey activities and provide assistance to the River to River Cooperative Weed Management Area as needed.
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**(2) Type of equipment provided by Cooperator for personnel**

(a) Identify major equipment needs:

Equipment provided by Cooperator for personnel: Microscopes for screening specimens.
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(b) Use of the equipment purchased:

Equipment will be used for general survey practices, screening and preserving target specimen.
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(c) Purchased with APHIS funds?

Not anticipating purchase of new equipment (over \$5,000)
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(d) Method of procurement:

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(e) Method of disposition:

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**(3) Provide office space at the Illinois Natural History Survey, 1816 S. Oak St. Champaign, IL , 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. The Cooperator will provide for all operational costs of the vehicles.**

**(5) Supplies**

**(a) Trapping supplies for field surveys:**

Consumable office supplies include copying costs, diskettes, printer and copier paper, ink cartridges, batteries, and other miscellaneous renewable materials and supplies (including shipping containers) will be provided by cooperator.

**(b) Special Supplies:**

**(c) Method of procurement**

Necessary survey supplies will be purchased as needed.

**iii) Contracts:**

**(a) Who will handle contractual needs:**

**(b) Cooperator Procurement activities shall be in accordance with A-102 and A-110.**

**(c) Special requirements – rate of spray, kill rate, special features etc.**

**iv) Reports:**

**Submit all reports to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:**

**(a) 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.**

**(b) Financial Status Reports, SF-269, in the frequency and time frame specified in the Notice of Award, Article 4.**

**v) 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:**

1. The ADODR will track the Cooperative Agreement to ensure that all survey data are entered into NAPIS by the completion date of the Cooperative Agreement, or date agreed upon in the work plan.
2. Provide the following resources:
  - i. A SPHD and PSS who will provide guidance and assist in the determination and prioritization of survey sites for inclusion in the survey. PPQ national identifiers will assist with confirmation of suspected target pest identifications.
  - ii. Federal equipment for its personnel.
  - iii. 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.

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

**i) List Participating Agency/Institution:**

USDA-APHIS-PPQ (including AQI)  
Illinois Natural History Survey  
Illinois Department of Agriculture  
Illinois Department of Natural Resources  
University of Illinois Department of Natural Resources and  
Environmental Sciences  
U.S. Forest Service  
River to River Cooperative Weed Management Area

**ii) List all who will work on the project:**

Kelly Cook, INHS  
Greg Rentschler, USDA-APHIS-PPQ  
Christopher Evens, River to River CWMA  
Steve Knight, USDA-APHIS-PPQ  
Mark Cinnamon, IDA  
Warren Goetch, IDA

**iii) Describe the nature of their effort:**

The above mentioned individuals will provide guidance and assistance with site selection. The nature of their efforts will range from providing information to completing visual surveys.

**iv) Contribution:**

Kelly Cook - co-coordinate survey efforts, assist with outreach and field surveys  
Greg Rentschler - provide information, assist with outreach and field surveys  
Christopher Evans - co-coordinate survey efforts, assist with outreach and field surveys  
Steve Knight - provide information and guidance  
Mark Cinnamon - provide information and guidance  
Warren Goetch - provide information and guidance

**IV) Quantitative Projection of Accomplishments to be Achieved:**

- A. The Illinois SSC, SPHD, and PSS work with CWMA coordinator to survey in defined area during January 2008.
- B. Illinois SSC, PSS, and CWMA coordinator will begin developing outreach publications on Invasive Plants in Illinois, January – March 2008.
- C. Begin survey efforts for *Heracleum mantegazzianum*, May 2008.
- D. Print and begin distribution of informational brochures, June 2008.
- E. Forward suspect specimens with PPQ Form 391 to national identifier as needed.
- F. Complete survey, September 2007.
- G. Summarize results for report to cooperator October 15 - November 1, 2008.
- H. Illinois SSC will compile negative summary records for submission to NAPIS database at completion of survey. Data entry for positive record of target pest within 48 hours of confirmation.
- I. Final report to National Plant Board, December 2008.
- J. Final written report to Eastern Region, April 2009.

## V) DATA COLLECTION AND MAINTENANCE

**A)** SSC Cook will coordinate NAPIS data entry for the state of Illinois. Individuals completing surveys within the state of Illinois will submit data for entry to SSC Cook. All guidelines below will be followed.

- i) All survey data from cooperative agreements involving pest surveys will be entered into the NAPIS database.
  - (1) First record for the State and/or County will be entered within **48 hours** of confirmation of identification by a qualified identifier.
  - (2) All other required records, both positive and negative survey data, must be entered **within two weeks** of confirmation.
  - (3) All records are to be entered into the NAPIS database by **December 1** of the year of survey, so these data can be included in the yearly Plant Board Report.
- ii) All appropriate PPQ data will be entered into NAPIS.
- iii) All appropriate data obtained by the CSREES network will be entered into NAPIS.
- iv) Exotic pest survey data from other sources (such as U.S. Forest Service, State Departments of Agriculture, and other qualified survey programs) will be entered into NAPIS as part of the Core project.

**B)** The kind of data to be collected:

Data collected will be used to complete all NAPIS entry requirements including, but not limited to date, location, pest, positive or negative pest status, trap type, and duration of trap.

**C)** The data to be maintained in:

Coordinators will maintain written records as well as electronic records.

**D)** Criteria to evaluate the results and successes of the project:

- i) Pest detection surveys, outreach, and other Core project activities, are completed in the manner and time frame outlined in Section III.
- ii) All data collected from the pest detection surveys is entered into the NAPIS database in the timeframes outlined in Section V.
- iii) Maps of the pest detection survey activities are produced to aid in planning of future pest detection surveys, pathway risk analysis, and outreach activities.

**E)** Methodology used to determine if the results and benefits are achieved:

- i) Review the NAPIS database to ensure that data from the pest detection activities has been entered.
- ii) Review the accomplishment reports, supporting outreach materials (if applicable), and maps.

## VI) GEOGRAPHIC LOCATION OF PROJECT

Surveys will be conducted in the counties of Alexander, Gallatin, Hardin, Jackson, Johnson, Massac, Pope, Pulaski, Saline, Williamson, and Union Counties. Data will be provided to the Cooperator's State Regulatory Official (SPRO) for entry into the database.

A) Type of terrain:

natural areas, forest, private property

B) Features which may have an impact on the project or activity:

rivers, lakes

## VII) TAXONOMIC SUPPORT

A) Person or Institution that will screen targets (Name & Contact Information):

Kelly Cook, Illinois Natural History Survey (SSC)  
Christopher Evans, River to River Cooperative Weed Management Area

B) CAPS Survey Collection Details: (Total Number of Trap Collections= Number of Sites X Number of Traps X Total Number of Visits)

Target Species	Survey Dates (Starting-Ending)	Number of Sites	Number of Traps/Visual surveys	Total Number of Collections
Heracleum mantegazzianum	June - September	11 counties		collection dependent on suspect specimen