

Hudson Valley Horticulture  
Cornell University Cooperative Extension of the Hudson Valley  
~~~Commercial Horticulture Electronic Newsletter~~~

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March 2012

Participating Counties: Orange \* Dutchess \* Putnam \* Rockland \* Sullivan \* Ulster \*  
Westchester \*

Editors: Jennifer Stengle & Rosemarie S. Baglia

[www.cce.cornell.edu](http://www.cce.cornell.edu)

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**March/April Programs**

**2012 Cornell Landscape Webinar Series:**

Detection and Early Management of Brown Marmorated Stink Bug and Emerald Ash Borer

**When:** **Monday February 27th**, 2012, 5:15 PM – 7:45 PM, **It's not too late!**

**Where:** Cornell Cooperative Extension offices throughout New York

**Registration:** Contact your local Cornell Cooperative Extension Office (see below)

NYS DEC credits and ISA CEUs have been applied for

## **Contractor Training & Stormwater Management for Landscapers and Property Managers**

NYS DEC Endorsed 4 Hour Training

**When:** **Wednesday, March 7**, 2012, 8 am to 4:30 pm

**Where:** At Cornell Cooperative Extension Orange County  
18 Seward Avenue, Third Floor, Middletown, NY

**Registration:** Must pre-register; other requirements may apply. Please call 845-344-1234 or email [cah94@cornell.edu](mailto:cah94@cornell.edu), or visit <http://counties.cce.cornell.edu/orange/agricult.htm> for more information.

### **Program Content:**

- Morning Session – NYS DEC Endorsed Erosion & Sediment Control 4-hr. Contractor Training. **CLASS IS FULL.**
- **Still time to register for Afternoon Session – Stormwater Management for Landscapers & Property Managers** - \$35 per person.
- Lunch – Optional with half-day sign ups - \$20 per person (No walk-ins).
- The afternoon session offers topics on applying these regulations in the field. Topics include: review of Green Infrastructure (GI) practices used for stormwater management, selecting the proper plant material for GI practices, and maintenance and inspection of temporary and permanent practices.
- **AFTERNOON SESSION QUALIFIES FOR 3 HWS CONTINUING EDUCATION UNITS (CEU's) FOR LANDSCAPE ARCHITECTS**

## **2012 ReLeaf Workshop & Bus Tour: Green Infrastructure—Its Beauty and Function**

**When** **Friday, March 9<sup>th</sup>**, 9:00am to 4:30pm

**Where:** New York Botanical Garden

**Registration: No walk-in registration!**

See complete form at: <http://www.nycgovparks.org/events/2012/03/09/releaf-workshop-green-infrastructure-its-beauty-function>

Many cities have pursued a wide range of sustainability initiatives in order to provide increased environmental benefits to urban residents, such as tree planting and related urban greening programs. In New York City, new stormwater management initiatives, or “green infrastructure”, can do two things at once – provide improved water quality in New York’s waterways and the benefits of increased tree canopy and vegetation cover such as shade, air quality improvements, and more ecological habitats for wildlife.

Throughout the ReLeaf Conference, presentations by NYC agencies, community organizations, professionals and volunteers will introduce these multiple green infrastructure technologies and efforts. Participants will gain a better understanding of the goals, vision, and ultimately, the positive impact green infrastructure implementation will have on New York City. A guided tour will be offered to attendees to see several newly installed green infrastructure projects and discuss the design, construction, community involvement and monitoring of the various technologies.

**Contact:** Mary Kramarchyk at 518-402-9412

## Greenhouse IPM In-depth Seminar

**When:** March 13, 2012 10:00 am—4:00 pm

**Where:** CCE Saratoga County, 50 West High Street, Ballston Spa

**Registration:** Pre-Registration required, Deadline March 9<sup>th</sup> \$25.00 per attendee (includes lunch, tour, refreshments, hands-on clinic and handouts)

Download the registration form here: [http://www.greenhouse.cornell.edu/calendar/ipm\\_workshop.htm](http://www.greenhouse.cornell.edu/calendar/ipm_workshop.htm)

**Contact:** Sharon LaPier at (518)885-8995 or send name, address and phone to [stl32@cornell.edu](mailto:stl32@cornell.edu)  
DEC and CNLP credits are provided for each session.

**Program Content:** (for more detailed information see [registration flier](#))

- Understanding and Managing Botrytis (Brian Eshenaur, NYS IPM)
- Thrips: Up Close and Personal (John Sanderson, Entomology)
- Getting Your Hands Dirty - Testing Container Media (Neil Mattson, Floriculture)

**BONUS:** Tour to Sunnyside Gardens in Saratoga Springs

Visit a commercial greenhouse for tips on structural and off-season pest management.

## 2012 Cornell Landscape Webinar Series: Seasonal Pest Update for Green Industry Professionals

**When:** Monday March 26, 2011 from 5:15 PM – 7:45 PM

**Where:** Your Local Cornell Cooperative Extension Office

**Registration:** Required. Contact your local Cooperative Extension Office

### Program Content:

*\* Transplanting & Aftercare in the Aftermath*

Following the storms of 2011, many professionals will be establishing and maintaining new specimens in the urban environment. **Nina Bassuk, Ph.D.**, Professor and Director of Cornell's Urban Horticulture Institute will discuss best management practices relative to the transplanting, establishment and maintenance of trees so they can perform optimally and remain vigorous, pest-free and aesthetically pleasing throughout the 2012 growing season.

*\*What We Learned from 2011 to Help in 2012.*

Cornell University Associate Professor & NYS Turfgrass Extension Specialist **Frank Rossi, Ph.D.**, will review the major pests and environmental stress factors that led to significant pesticide use last season that may be avoided in the future. Particular emphasis will be placed on disease and weed pests, turfgrass selection, irrigation and soil conditions.

## University of Connecticut Perennial Plant Conference – A Conference for the Professional Horticulturist

**Date:** Thursday, March 15, 2012.

**Location:** Lewis B. Rome Commons, University of Connecticut Storrs campus

**Registration:** A pre-registration fee of \$80 per person is due by March 8<sup>th</sup>. Program, speaker list and registration information, including online registration, is available at [www.2012perennial.uconn.edu](http://www.2012perennial.uconn.edu).

The fee is \$90 per person for late registrations and walk-ins. Registration is nonrefundable.

This all-day educational conference will address a wide range of topics focusing on herbaceous perennial production, sustainable landscape design, and retail marketing. Topics were selected to appeal to professional landscapers and designers, nursery and greenhouse producers, and retail

garden centers. Two concurrent educational sessions will feature nationally recognized speakers from both industry and academia.

**Contact:** For more information contact Donna Ellis at 860-486-6448, email: [donna.ellis@uconn.edu](mailto:donna.ellis@uconn.edu),

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## **Articles:**

### Recent FIFRA 2(ee) Recommendations:

The NYS Department of Environmental Conservation has recently approved the following 2(ee) recommendations for New York State

- **Downy Mildew**

The NYS Department of Environmental Conservation recently approved a 2(ee) recommendation for the use of Heritage Fungicide (EPA Reg. No. 100-1093) to control the unlabeled pest downy mildew (*Plasmopara* spp.) in ornamental bedding plants. Direct link to find the recommendation:

[http://pmep.cce.cornell.edu/regulation/2ee/unlabeled\\_pest/trees\\_shrubs/ornam\\_nut/fungicides/index.html](http://pmep.cce.cornell.edu/regulation/2ee/unlabeled_pest/trees_shrubs/ornam_nut/fungicides/index.html).

- **Squash Vine Borer**

Entrust (EPA Reg. No. 62719-282) and Agree WG (EPA Reg. No. 70051-47) for use on summer and winter squash, pumpkins, gourds, cucumbers, and melons against the unlabeled pest squash vine borer. Direct link to the recommendations:

[http://pmep.cce.cornell.edu/regulation/2ee/unlabeled\\_pest/vegetables/cucurbits/insecticides/index.html](http://pmep.cce.cornell.edu/regulation/2ee/unlabeled_pest/vegetables/cucurbits/insecticides/index.html)

- **Spotted Wing Drosophila**

Radiant SC (EPA Reg. No. 62719-545) for use on strawberry against the unlabeled pest spotted wing drosophila. Direct link to the recommendation:

[http://pmep.cce.cornell.edu/regulation/2ee/unlabeled\\_pest/small\\_fruits/strawberries/insecticides/index.html](http://pmep.cce.cornell.edu/regulation/2ee/unlabeled_pest/small_fruits/strawberries/insecticides/index.html)

- **Cabbage Maggot**

Coragen Insect Control (EPA Reg. No. 352-729) for use as a transplant water treatment in cabbage for control of the unlabeled pest cabbage maggot. Note that Coragen is a restricted-use pesticide in New York State and is not for sale or use in Nassau, Suffolk, Kings, or Queens Counties. Direct link to the recommendation:

[http://pmep.cce.cornell.edu/regulation/2ee/unlabeled\\_pest/vegetables/cabbage/insecticides/index.html](http://pmep.cce.cornell.edu/regulation/2ee/unlabeled_pest/vegetables/cabbage/insecticides/index.html)

Users must have a copy of the 2(ee) recommendation in their possession at the time of use. A copy of the complete 2(ee) recommendation has been posted to the "NYS 2(ee) Recommendations and Categories" section of our web site (see links above)

When using a 2(ee) recommendation, remember to follow any applicable directions, restrictions, and precautions on the primary product label.

Submitted by Teresa Rusinek, [Cornell Cooperative Extension Ulster County](#)

## Pesticides: Using Less than the Labeled Rate?

By law, only pesticides used for agricultural purposes can legally be used at less than label rate provided it is not prohibited by the pesticide's label. All other uses must follow the label rates or a 2(ee) must be obtained from the DEC to use at less than label rate. The legal reference is:

NYS Environmental Conservation Law  
§ 33-0725. Approved agricultural uses.

“A pesticide shall be used in accordance with its labeling. Unless the labeling specifically prohibits such use, a pesticide registered for use in New York state may be used for agricultural purposes only in a dosage, concentration or frequency less than that specified on the labeling.”

The Law can be viewed at:

[http://public.leginfo.state.ny.us/LAWSSEAF.cgi?QUERYTYPE=LAWS+&QUERYDATA=\\$ENV33-0725\\$\\$@TXENV033-0725+&LIST=LAW+&BROWSER=BROWSER+&TOKEN=30495948+&TARGET=VIEW](http://public.leginfo.state.ny.us/LAWSSEAF.cgi?QUERYTYPE=LAWS+&QUERYDATA=$ENV33-0725$$@TXENV033-0725+&LIST=LAW+&BROWSER=BROWSER+&TOKEN=30495948+&TARGET=VIEW)

Submitted by Betsy Lamb, [NYS IPM](#)

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**2012 Cornell Pest Management Guide for Commercial Production and Maintenance of Trees and Shrubs** is now available for distribution from the Pesticide Management Education Program Educational Resources Distribution Center.

This year, in addition to the annual pesticide updates, highlighted changes to the Tree and Shrubs Guide include:

- New management information for emerald ash borer and redheaded flea beetle.
- Revised pesticide regulatory information, including a section on the newly implemented pesticide prohibition on school and day care center grounds.

### Ordering:

The 2012 Cornell Guides can be obtained through your [local Cornell Cooperative Extension](#) office or directly from the Pesticide Management Education Program (PMEP) Educational Resources Distribution Center at Cornell University. To order from PMEP, call (607) 255-7282, send an email to [patorder@cornell.edu](mailto:patorder@cornell.edu), or order online at <https://psep.cce.cornell.edu/store/guidelines>. Cost for the Guide is \$26, shipping included.

Submitted by Jen Stengle, [Cornell Cooperative Extension Putnam County](#)

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## Free Greenhouse Energy Conservation Guide

Erik Runkle, Michigan State University Extension, Department of Horticulture

Energy is typically the second largest overhead cost in the production of greenhouse crops in Michigan and other northern states. This [MSU Extension](#) bulletin, developed by [Erik Runkle](#), MSU floriculture Extension specialist, and [A.J. Both](#), agricultural engineer at [Rutgers University](#), presents 13 production strategies and technologies that greenhouse growers can use to reduce energy consumption and improve production efficiency. Some of the practices discussed include:

- Installing efficient photoperiodic lighting when growing long-day plants.
- Managing greenhouse temperature based on the crop and finish date.
- Installing and maintaining retractable curtains.
- Installing infrared anti-condensate polyethylene film.
- Replacing an inefficient heating system with a more efficient one.

This 16-page document, in PDF format, can be downloaded free at the [MSU Greenhouse Energy Cost Reduction Strategies website](#). It also includes links to resources for more information on the different topics. The target audience of his document is greenhouse producers of floriculture crops located in temperate climates, although many of the concepts can apply to other greenhouse-grown crops.

This publication was funded by the [Michigan Floriculture Growers Council](#), who received a [Michigan Department of Agriculture and Rural Development](#) grant through the [USDA Agriculture Marketing Service Specialty Crop Block Grant Program-Farm Bill](#).

*Submitted by Betsy Lamb, [NYS IPM](#)*

## **USDA Unveils New Plant Hardiness Zone Map**

By [Kim Kaplan](#)

WASHINGTON—The [U.S. Department of Agriculture](#) (USDA) today released the new version of its Plant Hardiness Zone Map (PHZM), updating a useful tool for gardeners and researchers for the first time since 1990 with greater accuracy and detail. The new map—jointly developed by USDA's [Agricultural Research Service](#) (ARS) and [Oregon State University's](#) (OSU) [PRISM Climate Group](#)—is available online at [www.planthardiness.ars.usda.gov](http://www.planthardiness.ars.usda.gov). ARS is the chief intramural scientific research agency of USDA.

For the first time, the new map offers a Geographic Information System (GIS)-based interactive format and is specifically designed to be Internet-friendly. The map website also incorporates a "find your zone by ZIP code" function. Static images of national, regional and state maps also have been included to ensure the map is readily accessible to those who lack broadband Internet access. "This is the most sophisticated Plant Hardiness Zone Map yet for the United States," said [Catherine Woteki](#), USDA Under Secretary for [Research, Education and Economics](#). "The increases in accuracy and detail that this map represents will be extremely useful for gardeners and researchers."

Plant hardiness zone designations represent the average annual extreme minimum temperatures at a given location during a particular time period. They do not reflect the coldest it has ever been or ever will be at a specific location, but simply the average lowest winter temperature for the location over a specified time. Low temperature during the winter is a crucial factor in the survival of plants at specific locations.

The new version of the map includes 13 zones, with the addition for the first time of zones 12 (50-60 degrees Fahrenheit) and 13 (60-70 degrees Fahrenheit). Each zone is a 10-degree Fahrenheit band, further divided into 5-degree Fahrenheit zones "A" and "B."

To help develop the new map, USDA and OSU requested that horticultural and climatic experts review the zones in their geographic area, and trial versions of the new map were revised based on their expert input.

To read the complete press release, see: <http://www.ars.usda.gov/is/pr/2012/120125.htm>

## **Monthly Features**

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### **Regional Commercial Horticulture Calendar 2012**

Cornell Cooperative Extension Hudson Valley provides educational programs that can help you improve your skills in horticulture, pest management, natural resources, and business management. Updated brochures with specific information about each program will be mailed to you beforehand only if you are on your county's Cooperative Extension mailing list. If you wish to get on your county mailing list, have questions, or need further information about these programs, contact your local Cooperative Extension office listed on the back. Note that all \* programs offer continuing education credits for applicable certifications. Contact educators listed on specific programs you are interested in for details. Program flyers will be available with details on each program within the month prior to the event.

### **Stormwater Management for Landscapers and Property Managers**

March 7, 2012

Cornell Cooperative Extension Orange County  
Middletown, NY

Contact: Rosemarie Baglia 845-344-1234 or Marianna Quartararo 845-292-6180 X112

This program will focus on training landscapers and grounds managers on an array of on-site stormwater management techniques such as stormwater ponds, rain gardens, and erosion and sediment control methods. Current NYSDEC stormwater regulations and guidelines will also be discussed.

### **Christmas Tree Twilight Meeting**

July 2012,

Date and Location TBA

Contact: Stephanie D. Radin 845-677-8223 X104,

Teresa Rusinek 845-340-3990, or Rosemarie Baglia 845-344-1234

This is a hands-on, in the field program focusing on professional Christmas tree production issues.

### **Other Professional Horticulture Programs of Interest**

#### **2012 Cornell Landscape Webinar Series for Professionals**

**When:** Monday February 27<sup>th</sup> 5:15 to 7:45pm:

Detection and Management of EAB and BMSB

Monday March 19<sup>th</sup> 5:15 to 7:45pm:

Tree and Turf Update

Monday April 9<sup>th</sup> 5:15 to 7:45pm:

Landscape Disease and Turf Update

**Where:** Cornell Cooperative Extension Offices throughout New York

**Registration:** Pre-Registration Required. Check with [your local Cornell Cooperative Extension](#) office

### **NYS Releaf Conference**

July 2012

Location TBA Contact: Mary Kramarchyk at 518-402-9412

[NYS Urban and Community Forest Council](#)

## **IPM In-depth**

July 23<sup>rd</sup> 2012

For more information, contact Elizabeth Lamb at [eml38@cornell.edu](mailto:eml38@cornell.edu)

## **Floriculture Field Day**

July 24<sup>th</sup> 2012

For more information, contact Neil Mattson at [neil.mattson@cornell.edu](mailto:neil.mattson@cornell.edu)

## **Certified Landscape Technician Training**

Contact: NYSTLA at 914-993-9455 or visit [www.nystla.com](http://www.nystla.com)

An optional national testing program to recognize proficiency of qualified landscape professionals.

## **Certified Nursery Professional Training**

Contact: In Dutchess, Putnam & Westchester: Scott Olivieri 914-682-4224;

In Orange, Rockland & Ulster: Contact: Mark Masseo 845-658-9148

By passing this exam you can earn the title Certified Nursery Professional (CNP). Contact your [New York State Nursery and Landscape Association](#), listed above, for more details.

*This program will offer continuing education credits for applicable certifications. Contact educators listed on specific programs you are interested in for details. Program flyers will be available with details on each program within the month prior to the event.*

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## Pre-Exam Prep Class Schedule

### WINTER/SPRING 2012- REGION 3

**SEATING FOR THE CLASS MAY BE LIMITED. RESERVATIONS ARE REQUIRED BY ALL COUNTIES. CONTACT THE CORNELL COOPERATIVE EXTENSION OFFICE WHERE YOU WISH TO ATTEND TO SIGN UP.**

| <b>COUNTY</b>                                    | <b>Pre Exam<br/>PREP CLASS<br/>9:30 a.m. - 1:00 p.m.</b> | <b>EXAMS<br/>Generally given the first<br/>Wednesday of each month</b>         |
|--------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>ULSTER<br/>(845) 340-3990</b>                 | <b>February 23, 2012</b>                                 | <b>Reservation form for NYS<br/>Pesticide Exam given out<br/>at prep class</b> |
| <b>WESTCHESTER<br/>PUTNAM<br/>(845) 278-6738</b> | <b>March 8, 2012</b>                                     | <b>"</b>                                                                       |
| <b>ROCKLAND<br/>(845) 429-7085</b>               | <b>April 26, 2012</b>                                    | <b>"</b>                                                                       |
| <b>ORANGE<br/>(845) 344-1234</b>                 | <b>May 8, 2012</b>                                       | <b>"</b>                                                                       |
| <b>SULLIVAN<br/>(845) 292-6180</b>               | <b>TBD</b>                                               | <b>"</b>                                                                       |
| <b>DUTCHESS<br/>(845) 677-8223</b>               | <b>TBD</b>                                               | <b>"</b>                                                                       |

The DEC charges \$100 for the exam fee. Everyone will be required to pre-register for an exam session whether taking an initial core and category exam, a retest or adding a category. A registration packet will be given to all attending a pre exam prep class. If adding a category or retesting, contact the New Paltz DEC office for a reservation form.

### About Pesticide Certification

If you apply pesticides, including weed-killers, weed and feed products, insecticides, fungicides, or tick control products to customer's properties for hire, you or someone in your company must be a New York State Certified Pesticide Applicator through the New York State Department of Environmental Conservation and have your business registered. There are now three levels of commercial certification: applicator, technician, and apprentice.

#### For Commercial Applicators

To be eligible to take the exams to become certified, you must meet one of the following requirements:

-3 out of the past 5 years of verifiable experience as an apprentice working in the category applicant is seeking certification in; or 3 out of the past 5 years as a certified private applicator in a corresponding private category; or Certification in another State with which New York has reciprocity;

or if seeking certification in the Sales Category, at least 3 years experience in the sale of pesticides, or can demonstrate, through applicable training certifications or education degrees, that one possesses appropriate technical background.

### Certified Pesticide Technician

- be at least 17 years of age; 2 years of verifiable experience as an apprentice; or completion of a **30-hr. training course**, approved by the Department or a baccalaureate or associate degree from an accredited college or university in the area seeking certification. These are offered at the following:

- Pest Management Training Center (B. H. Stangel, Inc.): (845) 357-7734, [barrypmtc@optonline.net](mailto:barrypmtc@optonline.net), or visit [www.pestmanagementtraining.com/s/](http://www.pestmanagementtraining.com/s/).
- Paul Roland, Ph.D., 914-907-1797, [professor@pesticideteaching.ws](mailto:professor@pesticideteaching.ws)
- Advanced Technical Consultants (ATC): (845) 657-4271 or [www.pested.com](http://www.pested.com)
- For a more detailed list of current 30 hour certification courses, search the calendar database at Cornell University's Pesticide Management and Education program: <http://coursecalendar.psur.cornell.edu/>

### Pesticide Apprentice

- Must be at least 16 years of age. Must receive 40 hours of pesticide use experience under supervision of a certified applicator and a minimum of 8 hours of instruction on topics outlined in Section 325.18 of Part 325 Rules & Regulations relating to the application of pesticides, before being able to apply general use pesticides under the off-site direct supervision of a certified applicator. Documentation of the above must be maintained by the certified applicator, and include: name & address of apprentice; date(s) of instruction or observation; content of training and certification category; instructor's name and certification identification number; and an evaluation of the competency of the apprentice.

### For Private Applicators:

- Must be at least 17 years old, have at least one year of full-time experience within the last five years in the use of pesticides in the category in which certification is requested -OR- have completed a 30-hr. training course, or have received an associate's or higher level college degree in the area of which certification is requested.

- For further information on eligibility rules and regulations, and fees, contact the NYSDEC Region 3 Pesticide Staff at (845) 256-3097. Eligible candidates for certification must attend a training session, and pass two examinations, administered by the NYSDEC and held in conjunction with Cornell University Cooperative Extension. Once you determine you are eligible for certification, contact your county's Cornell University Cooperative Extension office for information on registering for the training class and exams. Contact your local CCE educator to find out training and exam dates for your county in the Hudson Valley.

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### **Cornell University Cooperative Extension County Commercial Horticulture Educators**

*Dutchess:* Stephanie Radin, [sdm10@cornell.edu](mailto:sdm10@cornell.edu), 845-677-8223 x 104

*Orange:* Rosemarie Baglia, [rsb22@cornell.edu](mailto:rsb22@cornell.edu), 845-344-1234

*Putnam:* Dianne Olsen, [dko3@cornell.edu](mailto:dko3@cornell.edu), or Jennifer Stengle, [jjs95@cornell.edu](mailto:jjs95@cornell.edu), 845-278-6738

*Rockland:* Donna Cooke, [dmc72@cornell.edu](mailto:dmc72@cornell.edu), or Paul Trader, [pwt2@cornell.edu](mailto:pwt2@cornell.edu), 845-429-7085

*Ulster:* Teresa Rusinek, [tr28@cornell.edu](mailto:tr28@cornell.edu), 845-340-3990

*Westchester:* Rick Harper, [rwh26@cornell.edu](mailto:rwh26@cornell.edu), Jerry Giordano, [ggg3@cornell.edu](mailto:ggg3@cornell.edu), 914-946-3005

*Mention of trade names and commercial products is for educational purposes; no discrimination is intended and no endorsement by Cornell University Cooperative Extension or Cornell University is implied.*

*Pesticide recommendations are for informational purposes only and manufacturers' recommendations change. Read the manufacturers' instructions carefully before use. Cornell University Cooperative Extension and Cornell University assume no responsibility for the use of any pesticide or chemicals.*

*Some of the links provided are not maintained by Cornell University Cooperative Extension and Cornell University. Cornell University Cooperative Extension and Cornell University are not responsible for information on these websites. They are included for information purposes only and no endorsement by Cornell University Cooperative Extension or Cornell University is implied.*

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