

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

Volume 12, Issue 04

April 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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## [April/May Programs](#)

### Asian Longhorned Beetle (ALB) & Emerald Ash Borer (EAB) Compliance Training Workshop

**Date:** Friday April 13,

**Time:** 8:45 AM – 12:15 PM

**Location:** Greenburgh Public Library, 300 Tarrytown Rd., Elmsford, NY.

**Registration:** Pre-registration for this program is required. For more information, or to sign up, contact Michael Singho, NYS Depart. of Ag. & Markets at: [michael.singho@agriculture.ny.gov](mailto:michael.singho@agriculture.ny.gov)

*\*\*NYS DEC Credits & ISA CEU's Have Been Applied for\*\**

**Program:**

A free morning compliance training pertaining to operating within the Asian Longhorned Beetle (ALB) Quarantine in NYC. This program will also offer certification for contractors operating in the Emerald Ash Borer (EAB) Quarantine.

Featured speakers/trainers will include NYS Department of Ag & Markets staff and attendees will qualify for continuing educational credits for ISA Certified arborists and NYS Pesticide Applicators. This training will also facilitate bidding on NYC and NYS contracts and is *strongly* recommended by NYS regulation authorities if you are operating in the NYC Quarantined area.

Pre-registration for this program is required. For more information, or to sign up, contact Michael Singho, NYS Depart. of Ag. & Markets at: [michael.singho@agriculture.ny.gov](mailto:michael.singho@agriculture.ny.gov)

### **Landscapes & Lawns – A Timely Update for Landscape Management Professionals**

A program designed to update turf & ornamentals managers about the timely pests and environmental pressures present in the 2012 growing season.

**Date:** Monday MAY 7th, 2012

**Time:** 5:15 PM – 7:45 PM

**Location:** [Your Local Cornell Cooperative Extension Office](#)

**Registration:** Pre-Registration Required. Check with your local CCE office  
DEC has awarded 2 credits for 3a, 10 & 25 and 1 credit for 3b.

**Program:**

#### **Turfgrass ShortCUTT's: What's Up?**

Cornell University Associate Professor & NYS Turfgrass Extension Specialist [Frank Rossi](#), Ph.D., will update professionals about timely seasonal pest and environmental stress factors that managers are contending with thus far in the 2012 growing season. Particular emphasis will be placed on using an integrated, environmentally-responsible pest management approach.

#### **Diseases of Landscape Woody Ornamentals**

[Brian Eshenaur](#), Extension Specialist with the NYS IPM Program at Cornell University will discuss the diagnosis and management of the latest diseases of landscape trees and shrubs.

Recording of other programs sponsored by the Cornell Cooperative Extension Sustainable Landscapes-Horticulture Program Work Team are available at: <http://vimeo.com/gbl/videos>

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## **Articles:**

### **Pachysandra Identified as Boxwood Blight Host**

Plant pathologists at The Connecticut Agricultural Experiment Station recently identified *Pachysandra terminalis* (common names: pachysandra, Japanese spurge) as a new host of *Cylindrocladium pseudonaviculatum*, the fungus that causes Boxwood Blight. Pachysandra, along with *Sarcococca* and *Buxus* are the most commonly grown ornamental members of the Buxaceae family.

Read more at <http://www.ct.gov/caes/cwp/view.asp?Q=500388&A=3756>

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

### **Impatiens Downy Mildew**

A New Pest of Impatiens in the Landscape

Over the last few decades, *Impatiens walleriana* (Busy Lizzie) has replaced other long-blooming summer annuals in “top of the list” popularity for use in summer beds and borders and for container use. The ability of this species to bloom profusely in shaded situations and its tolerance of sunny sites (as long as ample water is provided) has caused *I. walleriana* to become ubiquitous in the Northeast

summer landscape. The popularity of this plant is further bolstered by the fact that few if any pest problems are usually encountered when growing it under landscape conditions. Where other summer flowering ornamentals flag, stop blooming, or give up the ghost altogether, *Impatiens walleriana* is considered an iron clad "insurance policy" for home gardeners and commercial landscapers alike. Recently however, Impatiens Downy Mildew, caused by *Plasmopara obducens* is considered by disease experts to be a new threat to the health of this seemingly indestructible Summer annual.

While *Impatiens hybrida* (*I. hawkeri*), commonly known as New Guinea Impatiens, do not seem to be affected by this disease pest, other species including *Impatiens balsamina*, (Garden balsam) are also affected.

In response to the appearance of Impatiens downy mildew in New York State, Margery Daughtrey, Cornell University Senior Extension Associate in plant pathology who works at the Long Island Horticulture Institute and Extension Center in Riverhead, has been studying this new disease pest and its potential impact on the Green Industry and gardening consumers. Recently, Nora Catlin, Floriculture Specialist at Cornell Cooperative Extension of Suffolk County, teamed up with Margery to produce a new fact sheet titled *Impatiens Downy Mildew in the Landscape*. This timely resource provides information relative to scouting for and managing this disease. The fact sheet may be found through the following link: [http://e-gro.org/pdf/Bulletin\\_1-8\\_Impatiens\\_Downy\\_Mildew.pdf](http://e-gro.org/pdf/Bulletin_1-8_Impatiens_Downy_Mildew.pdf)

- *Note: Impatiens downy mildew is just one of the many topics covered in a new e-bulletin available for growers called e-GRO Alert. A collaborative effort on the part of Floriculture Extension Specialists at Cornell University, Purdue University, North Carolina State University and the University of New Hampshire, this new tool is tailor made to help keep growers informed concerning issues vital to their industry. For more information on impatiens downy mildew in the greenhouse visit: <http://e-gro.org/alert.php>. Click on issue '1.8 Downy Mildew of Impatiens'. Growers may subscribe to e-Gro Alert by clicking 'Subscribe' at the top.*

Submitted by Jerry Giordano, [Cornell Cooperative Extension Westchester County](#)

### **Urban Forestry: Nation's Urban Forests Losing Ground**

National results indicate that tree cover in urban areas of the United States is declining at a rate of about 4 million trees per year, according to a [U.S. Forest Service study](#) published recently in Urban Forestry & Urban Greening.

Tree cover in 17 of the 20 cities analyzed in the study declined while 16 cities saw increases in impervious cover, which includes pavement and rooftops. Land that lost trees was for the most part converted either to grass or ground cover, impervious cover or bare soil.

To read the whole article, please see: <http://nrs.fs.fed.us/news/release/urban-forests-lose-ground>

Submitted by Rick Harper, [Cornell Cooperative Extension of Westchester County](#)

### **Berry Growers Cautioned About New Insect Pest: Spotted Wing Drosophila**

By Amanda Garriss, Chronicle Online

Late last summer, a single fruit fly dropped into a vinegar trap in the Hudson Valley, alerting extension specialists to spotted wing drosophila's (SWD) arrival to New York State. This tiny fruit fly may spark big changes for growers of berries and other soft-skinned fruits in the Northeast this summer.

"Based on what is occurring in places like Michigan and North Carolina, I expect the SWD to be a serious issue for small fruit growers in New York," said Cornell professor of entomology Greg Loeb. "Until now, we have not had to spray a lot of insecticide on our small fruit crops, but SWD could be a game changer for pest management."

An Asian native, *Drosophila suzukii* first appeared in California in 2008 and subsequently became established in the Southeast. Hurricane Irene is credited with helping it expand northward last year to the Hudson Valley, Finger Lakes and Long Island.

Read the complete article at: <http://www.news.cornell.edu/stories/March12/flyGrowers.html>

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

### **Spotlight on Ornamentals: A Growing Need for Early Post-emergence Weed Control in Ornamentals**

from [IR-4 Ornamental Horticulture Program](#) on Tuesday, March 6, 2012 at 1:34pm ·

By Kathleen Hester

Labor cuts in ornamental production have become a reality with the new economy. Previously, weed seedlings that escaped control from pre-emergent herbicides were typically hand weeded prior to marketing. With fewer hands to weed containers these menacing seedlings are quick to take the advantage, leaving ornamental crops overgrown with weeds that reduce yields and render crops unsalable.

The IR-4 Ornamental Horticulture Program responded to this need for early post emergence weed control in greenhouse and field grown ornamental container production by making it a research priority at the 2007 workshop. Since that time fourteen herbicides were tested for efficacy on several of the most troublesome weed seedlings including bittercress, spurge, and yellow wood sorrel. Positive results show a number of treatments that successfully impact escaped weed seedling control in ornamental production. Dr. Charles Gilliam of Auburn University said “No doubt this has been a major success in addressing this shortage. Now growers are able to apply Gallery as a pre-emergent application and reliably manage emerged bittercress seedlings as well.” Data shows that Pendulum and Tower are effective as post emergence treatments on spurge seedlings while Certainty managed a number of emerged species. New generations of chemistry offer potential use such as indaziflam for oxalis control.

Interestingly, Gilliam has observed “a greater tolerance among growers regarding crop injury from herbicides today than in the late 90’s.” Striking a balance between the levels of injury growers will tolerate on crops and innovative herbicide treatments may be the key to a sustainable weed management program for the future. IR-4 plans continued study on the effect of herbicide crop safety in ornamentals in 2012. For complete protocols and reports please go to <http://ir4.rutgers.edu/ornamentals.html>.

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

### **EPA Launches Updated Green Infrastructure Website and Announces Funding Opportunity for Technical Assistance**

EPA's Green Infrastructure Program is pleased to unveil a new website and to announce the availability of technical assistance to 10-20 partner communities. The new [website](#) expands upon the previous website to showcase EPA's research on green infrastructure and to serve as a gateway to the wealth of resources developed by governmental agencies, academia, non-profits, and the private sector. Stakeholders will be able to consult our website for up-to-date information on green infrastructure publications, tools, and opportunities.

The website also announces the [availability of direct assistance](#) from EPA to facilitate the use of green infrastructure to protect water quality. Technical assistance will be provided through EPA contract support and will be directed to watersheds with significant water quality degradation associated with urban stormwater. The total EPA assistance available is approximately \$950,000, and will be distributed among 10-20 projects. The value of the assistance available to each project will be approximately \$50,000 - \$100,000. Letters of interest must be received by April 6, 2012.

Submitted by Rose Baglia, [Cornell Cooperative Extension, Orange County](#)

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### **Recent FIFRA 2(ee) Recommendations:**

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

1) Portal Insecticide (EPA Reg. No. 71711-19) against the unlabeled pest cyclamen mite on low growing berries including lowbush blueberry, cranberry, and strawberry. This revised label now requires that a minimum of 300 gallons of water per acre be used.

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

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

2) Heritage Fungicide (EPA Reg. No. 100-1093) to control the unlabeled pest downy mildew (*Plasmopara* spp.) in ornamental bedding plants.

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. (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). A copy of the 2(ee) will also be posted to PIMS (<http://pims.psur.cornell.edu>) shortly.

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

A copy of the 2(ee) will also be posted to PIMS (<http://pims.psur.cornell.edu>) shortly.

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)

Mike Helms, Extension Support Specialist/Managing Editor - Cornell Guidelines  
Pesticide Management Education Program (PMEP)  
Cornell Guidelines Website: <http://ipmguidelines.org>  
PMEP Website: <http://pmep.cce.cornell.edu>

## **NYSDEC Approval**

### **Paladin and Paladin EC Fumigants**

The NYS Department of Environmental Conservation has recently approved the registration of Paladin (EPA Reg. No. 55050-4) and Paladin EC (EPA Reg. No. 55050-5). These products contain the new active ingredient dimethyl disulfide. Paladin contains 98.8% dimethyl disulfide and Paladin EC contains 93.8% dimethyl disulfide. Both products are formulated as liquids. They are labeled as a pre-plant soil fumigant for control and suppression of weeds, soil-borne plant pathogens, and nematodes in tomatoes, peppers, eggplants, cucumbers, squash, melons, strawberries, blueberries, field-grown ornamentals, and forestry nursery stock.

Both Paladin and Paladin EC are federally restricted use due to inhalation exposure to humans. Application of both of these products is limited to a maximum of 40 contiguous acres and a maximum rate of 449 pounds of dimethyl disulfide per acre.

### **Topguard Fungicide**

The NYS Department of Environmental Conservation has recently approved the registration of Topguard Fungicide (EPA Reg. No. 67760-75). This product contains the new active ingredient flutriafol. Topguard Fungicide contains 11.8% flutriafol and is formulated as a liquid concentrate. It's labeled for control of rust and other fungal diseases on soybeans and apples.

Note that sale, use, and distribution of Topguard in Nassau and Suffolk Counties is prohibited.

Also note that there are two approved labels for this product – one for soybeans and one for apples. Copies of these labels will be available on PIMS (<http://pims.psur.cornell.edu>) shortly.

Copies of the labels for these products will be available on PIMS (<http://pims.psur.cornell.edu>) shortly.

*Excerpted from:*

Mike Helms, Extension Support Specialist/Managing Editor - Cornell Guidelines

Pesticide Management Education Program (PMEP)

Cornell Guidelines Website: <http://ipmguidelines.org>

PMEP Website: <http://pmp.cce.cornell.edu>

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

## **Regional Update – Westchester County**

Having just wrapped up one of the warmest winter seasons on record, we start April with many of our traditional landscape ornamentals in full bloom and with the growing season in full swing. Growing degree day (GDD) accumulation has once again commenced and as of April 01 our count from central Westchester County (Valhalla) reads at **92 GDD** (around 75 GDD or about a month ahead of this time last year).

Based our initial scouting trip for emerging pests of ornamental plantings, we noted the larvae of Boxwood leafminer active (and have been for quite some time) with crawler emergence of Hemlock Woolly Adelgid (HWA) also having already taken place. Careful monitoring should continue relative to other “early season” pests including for the hatch of overwintering eggs of spruce spider mites (SSM) and pine bark adelgid, as well as overwintering females (sometimes referred to as "stem mothers") of the eastern spruce gall adelgid.

As always, knowing the historical location of some of the aforementioned pests on a given property may allow a landscape professional to forecast areas that may require follow-up monitoring or treatment as pest activity commences/increases with the onset of warmer temperatures. Also, keep an eye out for the elusive white pine weevil adults which should currently be active (and managed) on susceptible pines, spruce, hemlock and douglas-fir.

Since March we've been able to observe hairy bittercress, henbit and lesser celandine in flower among the desirable turf and along roadsides.

Read more about these and other common landscape pests (and their management) in our newly printed 2012 Pest Management Guide for Commercial Production and Maintenance of Trees and Shrubs. This manual been expanded to include new least-toxic/organic materials and may be obtained by stopping in at your local Cooperative Extension office or by accessing it online at: <http://ipmguidelines.org/treesandshrubs/>

In Westchester County, green industry professionals may call us at 914-946-3005 for more information or stop by the office on 26 Legion Drive in Valhalla.

Written by Rick Harper, [Cornell Cooperative Extension Westchester County](#)

## Regional Update – Putnam County

Lots of confusion as to when to apply pre-emergent herbicides to lawns! Forsythia may not be the best indicator this year. Here in Putnam it is in full flower, though not yet in the green-and-gold stage. However, note that our native *Amelanchier*, also known as Shadblow or Serviceberry, is coming into bloom more-or-less when it usually does, begging the question: are natives more reliable as phenological indicators. Who can tell? But the message is clear: you can't rely on a single indicator. Keep an eye on GDD and soil temperatures as well.

This from UMass: "If you have the luxury of flexibility, we are still early for application. *Forsythia*, however, is in full bloom and if you are in a situation where you cannot afford to be late you can make your applications now. If you choose a split-application approach you can apply your first half now. (For us here in NY, that means you may have to use the lowest labeled rate, and not exceed the total seasonal cumulative rate labeled for the product.) In any event, monitoring will have to be stepped-up this year in late spring/early summer to assess the success of any pre-emergence applications during this unusual season."

The weather "flip-flop" has left us little time for spring seeding and repair. Another pre-emergent useful for areas were seeding is a must has been registered for use on commercial and sports turf, Tenacity (active ingredient: Mesotrione) is useful for controlling grassy weeds in lawns prior to or even over new seedlings. For more information see the following website and look for detailed information in the 2012 Cornell Recommends for Turfgrass (which should be out in mid-April). <http://turf.unl.edu/pdfctarticles/apriltenacity.pdf>

Got questions? In Putnam County, green industry professionals may call us at (845) 278-6738 for more information or stop by the office at 1 Geneva Rd, Brewster (Just above DMV).

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

## **Monthly Features**

### **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.

### **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**

### **Distance Learning Opportunities**

Cornell's PMEP recently added to their distance learning course list a version of [the webinar Sustainable Landscapes-Horticulture PWT offered in February](#).

**Brown Marmorated Stink Bug (BMSB) Identification and Management.** Cornell University Entomologist and BMSB Specialist Peter Jentsch will outline the arrival, ID and management of Brown Marmorated Stink Bug and what it means for landscape professionals.

### **Emerald Ash Borer (EAB)**

Natural History, Detection and Community Action Plan. Cornell University Entomologist and EAB Specialist Mark Whitmore will discuss the ID and Natural History of EAB and what your community can do to prepare for this pending pest.

You can earn DEC credits via this PMEP site (PMEP fees apply).

<http://coursemerchant.cce.cornell.edu/>

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### **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.

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

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.*

*You have received this newsletter because you indicated an interest in hearing about the information included in Hudson Valley Horticulture. If you wish to be removed from future mailings, please contact the office in your county or call 845-344-1234. If this newsletter has been forwarded to you and you would be interested in receiving a copy each month, contact your local Cornell University Cooperative Extension Educator and ask to be put on the list. Cornell University Cooperative Extension provides equal program and employment opportunities. Please notify us if you have special needs.*