

Commercial Horticulture

November 2, 2012

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**Integrated Pest  
Management for  
Commercial Horticulture**

[ipmnet.umd.edu](http://ipmnet.umd.edu)

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If you work for a commercial horticultural business in the area, you can report insect, disease, weed or cultural plant problems found in the landscape or nursery to [sklick@umd.edu](mailto:sklick@umd.edu)

**Coordinator Weekly IPM report:**

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**Regular Contributors:**

Pest and Beneficial Insect Information: Stanton Gill and Paula Shrewsbury (Extension Specialists) and Brian Clark (Extension Educator, Prince George's County)

Disease Information: Karen Rane (Plant Pathologist) and David Clement (Extension Specialist)

Weed of the Week: Chuck Schuster (Extension Educator, Montgomery County)

Cultural Information: Ginny Rosenkranz (Extension Educator, Wicomico/Worcester/Somerset Counties)

Fertility Management: Andrew Ristvey (Regional Specialist, Wye Research & Education Center)

Design, Layout and Editing: Suzanne Klick (Technician, CMREC)

**Fall Turf Field Day - November 7, 2012 (11 a.m. to 2 p.m.)**

**Sponsored by the Maryland Turfgrass Council and University of Maryland Extension**

**Location:** Maryland Turf Farm, University of Maryland, College Park, MD  
The speakers are Pete Dernoeden who will address weed issues, Tom Turner who will address the new Maryland Fertilizer Law and turfgrass cultivars, Mark Carroll who will address compost amendments, Kevin Mathias who will address grub issues and Dave Clement and Mary Kay Malinoski who will address mowing height and give out mowing guides.

There is no charge, but please RSVP to Dave Clement, [clement@umd.edu](mailto:clement@umd.edu) for the head count for lunch.

**Last Report for 2012**

Today's report is the last one for the season. Over the winter, we will send out an occasional conference announcement or pest update if anything new arises. If you haven't done so already, we would appreciate it if you go on-line to fill out the annual survey. Thanks.

**The annual survey for the IPM report is now posted at:**  
<http://cgi.umd.edu/survey/display?ipmnet/12IPMSurvey>

## 2012 - 2013 Conferences

There is a list of conferences at the end of this report. There is also a conference listing posted on-line at [ipmnet.umd.edu](http://ipmnet.umd.edu) with links to registration forms when available. We are working on the schedules for the conferences listed below and will post the details on-line when the schedules are complete.

### Invasive Species Program

March 28, 2013

Montgomery County Extension Office, Derwood, MD

### Brown Marmorated Stink Bug Update

April 10, 2013 (listed in the October 19th IPM report as April 11th, but we were unable to find a facility available on that date)

Carroll Community College, Westminster, MD

### Final Report of the 2012 Season- from Stanton Gill

It has been a bountiful season full of bugs, diseases and cultural problems. Boxwood blight showed up in Maryland and downy mildew took out many garden impatiens in 2012. Downy mildew and powdery mildew reports were at record levels this season. The emerald ash borer spread its domain so the western part of Maryland is now in quarantine for the EAB. The brown marmorated stink bug did poorly in the early part of the season but seems to be making a comeback this fall. The Japanese longhorned beetle showed up in two new counties this fall – Baltimore County and Anne Arundel County. The good news is we have not found Asian longhorned borer or walnut twig borer and thousand canker disease in Maryland in 2012.

We experienced a record number of days with temperatures above 100 °F, and a drought on the Eastern Shore. In June we had a new thrill: The June 2012 Mid-Atlantic and Midwest derecho was one of the most destructive, deadly and fast-moving severe thunderstorm complexes in North American history. The progressive derecho tracked across a large section of the Midwestern United States and across the central Appalachians into the Mid-Atlantic states on the afternoon and evening of June 29, 2012, and into the early morning of June 30, 2012. It resulted in 22 deaths, widespread damage and millions of power outages across the entire affected region. We are ending the reporting season with one of the biggest hurricane storms to blanket the East Coast. There are many downed trees throughout landscapes in this area.

### Thanks to All of the People Who Contributed to the IPM Alert in 2012

This weekly IPM Alert works because each of you send in electronic pictures and reports of what is happening across the states. Thanks to each of you that contributed during the season. I also want to recognize Suzanne Klick's major efforts to pull this weekly IPM report together each week and get it out to each of you. She does a wonderful job. Also, I want to thank all of the University of Maryland contributing authors who are doing a great writing job: Karen Rane, Paula Shrewsbury, Ginny Rosenkranz, Chuck Schuster, David Clement, Brian Clark, and Andrew Ristvey. Thanks to each you.

We will send out periodic reports during the winter, but now it is time to move onto organizing winter educational conferences and analyze the data from our field trials conducted in 2012.



## Year in Review – Diseases in 2012

As mentioned above, 2012 was the year for impatiens downy mildew, with reports of the disease from garden centers and landscapes throughout the state. Greenhouse growers will be amending their fungicide schedules to protect their impatiens crop next season, but there is still the potential for this disease to overwinter in landscape beds if diseased plants were not completely removed. We are recommending that garden impatiens not be planted in the same beds next year, and keep a close eye on any garden impatiens you plant to catch the disease early. Boxwood blight was found for the second time in Maryland this fall, and after recent cool weather and all the rainfall from Superstorm Sandy it's possible we'll see more of this disease next spring. Speaking of the storm, wounds and branch stubs left on storm-damaged trees can serve as entry points for wood rot fungi, so it is very important to prune broken branches properly to promote wound closure. Once these wounds are sealed by callus growth, they are no longer vulnerable to infection. Another disease favored by the recent rains is *Phytophthora* crown and root rot. Several species of *Phytophthora* have been documented to cause root rot on a number of woody plants, and saturated soils provide the perfect environment for infection by these 'water molds'. Aboveground symptoms of a fall root rot infection may not develop until next spring when trees and shrubs begin active growth, so keep this in mind if you see plants showing dieback symptoms next year.

## Storm Damage Reports

The Maryland Farm Bureau is coordinating the effort to collect storm damage information from agricultural operations in the state. Please respond to Valerie Connelly (Director of Government Relations Maryland Farm Bureau, Inc., 410-922-3426, [valeriec.mdfb@verizon.net](mailto:valeriec.mdfb@verizon.net)) who is collecting accurate information about the storm damage to farms in Maryland from Hurricane Sandy. If you have a personal example of damage or are hearing of damage to crops, poultry houses, livestock facilities or agricultural buildings in your area, please let her know.



Remains of the oak tree that came down in Superstorm Sandy here at the research center in Ellicott City

The purpose of this information is to be able to effectively communicate the impact of the storm on farms to government officials and to the general public through the press.

## Cryptomeria Problems

Scot Morrow, Frederick Landscaping, sent in branch samples of a cryptomeria tree that had branches turning brown. The branches were loaded with Maskell scale. This scale is one of the most frequently encountered scales we find infesting cryptomeria.

**Control:** At this point in the year we are recommending applying a 3- 4% horticultural oil in late March to early April. The crawlers of this scale are generally active in May and June. During crawler periods, apply Distance or Talus mixed with 0.5% horticultural oil.



Maskell scale on cryptomeria

## Millipedes

Greg Dionne, Mainscapes, sent in a photo of pansies being damaged by millipedes. Most often, millipedes feed on decaying plant material, but occasionally cause damage to herbaceous plants.



Millipede feeding on pansy  
Photo: Greg Dionne, Mainscapes

## Weed of the Week, Chuck Schuster

Yellow rocket, *Barbarea vulgaris*, is a common winter weed. Most often classified as a biennial, it can be found as a perennial in many settings. Found throughout the Eastern United States, it is a member of the mustard family. This weed can be found in both lawns and landscapes. Germination of this winter weed occurs in late fall to early winter. It can become one of the early weeds to be noticed in the spring. The seedling leaves are egg-shaped and are attached to the rosette on long stalks. The leaves have a small notch near the tip. True leaves are alternate, dark green and shiny, and become toothed with maturity. The terminal lobes have a heart-shaped base. Leaves can be two to eight inches in length and differ from wild radish as the radish will have stiff hairs covering the leaf. The four-petaled flowers occur in clusters and are yellow, small, and found on the tips of the upper branches. Flowers contain both male and female. Yellow rocket has a taproot with fibrous hairs radiating from it.



**Yellow rocket rosette**  
Photo: Virginia Tech Weed Guide

This is the preferred time to gain control using post emergent applications of 2, 4D and or Dicamba. Mow to prevent this weed from reaching maturity and seed production is also useful.

## Plant of the Week, Ginny Rosenkranz

*Kerria japonica*, Japanese rose, is a deciduous shrub that grows 3-6 feet tall and 6-9 feet wide. The branches arch up and out and are covered with bright green, slender leaves that are arranged alternately on the stem and turn yellow in the fall. The plant does produce suckers which expands the size of the plant. The green stems provide winter interest. The 1-1½ inch flowers are bright yellow and 5-petaled. Plants bloom in the early spring with some single flowers throughout the summer. *Kerria japonica* does best if planted in shady areas with loamy, well drained soils. Once established, *Kerria japonica* is drought tolerant. Cultivars include 'Pleniflora' which has golden double ball-shaped flowers, 'Golden Guinea' which has large 2-inch blooms and 'Picta' with green and white variegated foliage. Cold hardy from USDA zone 4-9, *Kerria japonica* is useful as a solitary plant or as a mass planting in shady areas. Pests include leaf and twig blight, canker and root rot.



***Kerria japonica* 'Pleniflora'**  
Photo: Ginny Rosenkranz

## Degree Days (As of November 1)\*

Baltimore, MD (BWI)	4385	Dulles Airport	4222
Frostburg, MD	2662	Martinsburg, WV	3884
National Arboretum	5002	Reagan National	5002
Salisbury	4601		

\*As of May 11, degree day calculations are from weather.com growing degree day calculations instead of NOAA min and max temperatures. To check degree day (DD) accumulations in your local area go to: <http://www.weather.com/outdoors/agriculture/growing-degree-days/USMD0100>

**December 13, 2012 Recertification Credits Available:**

**Maryland Pesticide Recertification:** Categories 2, 3A, 3C, 5, 6 and 10 (Forest, Ornamental Plant - Exterior, Turf, Aquatic, Right of Way and Weed and Demonstration and Research)

**Maryland Nutrient Management Credit:** 2.5 credits for applicable sessions

**D.C. Pesticide Recertification:** Categories 3A, 3B, 3C: 7F: 5

**Virginia Pesticide Recertification:** Forest Pest Control (Category 2), Ornamental Pest Control (Category 3-A), Turf Pest Control (Category 3-B), Aquatic Pest Control (Category 5-A), Demonstration and Research Pest Control (Category 10) and Registered Technician (Category 60)

**Pennsylvania:**

PC - Private Category	6 credits
06 - Ornamental and Shade Trees	10 credits
07 - Lawn and Turf	10 credits
18 - Demonstration and Research	10 credits
23 - Park / School Pest Control	10 credits

**West Virginia:**

Combined Session: Cat 4A-10, Cat 4B-10, Cat 6-1, Cat 7-3, Cat 11-10, Cat 12-10

Main Room Concurrent: Cat 4A-4, Cat 11-4, Cat 12-4

Room 2 Concurrent: Cat 4A-4, Cat 4B-4, Cat 11-4, Cat 12-4

Room 3 Concurrent: Cat 4A-2, Cat 4B-2, Cat 6-2, Cat 11-4, Cat 12-4

**ISA Credits:**

**Morning Sessions:** 2 each (Arborist, Municipal), 1.5 each (Utility, TW Climber Specialist, and BCMA Practice), and .5 each (BCMA Science)

**Afternoon Sessions:** 2.25 (Arborist, Municipal, BCMA Science) and .75 each (TW Climber Specialist)

**A copy of the brochure is posted at <http://ipmnet.umd.edu/conferences/docs/12Dec13C.pdf>**

**Advanced Nutrient Applicator Training for In-Ground Nursery Growers**

**Getting to Know Your Soils** (*Multiple Dates, Multiple Locations, 1:00 to 4:00 PM*)

**Locations:**

*November 13, 2012* – Wye Research and Education Center, Queenstown, MD

*November 27, 2012* - University of MD Extension Baltimore County Office, Cockeysville, MD

*December 4, 2012* - University of MD Extension Montgomery County Office, Derwood, MD

**Contact:** Debby Dant, 410-827-8056 X115, [ddant@umd.edu](mailto:ddant@umd.edu)

**For more details:**

[http://ipmnet.umd.edu/conferences/docs/Advanced\\_Nutrient\\_Applicator\\_Training-Soils\\_2012.pdf](http://ipmnet.umd.edu/conferences/docs/Advanced_Nutrient_Applicator_Training-Soils_2012.pdf)

## Upcoming Programs

### Fall Turf Field Day

November 7, 2012

Location: University of Maryland Turf Farm, College Park, MD  
RSVP for lunch count: Dave Clement, clement@umd.edu

### 2012 Delaware Ornamental and Turf Workshop

November 14, 2012

Hockessin, Delaware 19707

Contact: 888-448-1203

### Southern Maryland Urban Pest Conference

November 28, 2012

Location: Baden Fire Hall, Baden, MD

Contact: Brian Clark, 301-868-8780

### 2012 Pest Management Conference

December 13, 2012

Location: Carroll Community College, Westminster  
ipmnet.umd.edu

### Advanced Landscape Plant IPM PHC Short Course

January 7-10, 2013

For registration information contact: Avis Koeiman,  
301-405-3913, akoeiman@umd.edu

### MAA Winter Conference

January 16 and 17, 2013

Location: Turf Valley, Ellicott City, MD

Contact: 410-321-8082

### Delaware Horticulture Industry Expo

January 23 & 24, 2013

Location: Modern Maturity Center, Dover, DE

Contact: 888-448-1203

### Green Industry Professional Pesticide Recertification Seminar

January 24, 2013

Location: Northern Virginia Community College,  
Annandale Campus

Contact: Mary Bean, mbeanhouse@aol.com, 202-215-1134,  
www.greenindustryseminar.org

### FALCAN Conference

January 30, 2013

Location: Frederick County Fairgrounds, Frederick, MD

Contact: Dan Felice, 301-606-8631

### 2013 Mid-Atlantic Horticulture Short Course

February 4 - 7, 2013

Location: Marriott at City Center, Newport News, VA

<http://www.mahsc.org/>

### Eastern Shore Conference Pesticide Conference

February 13, 2013

Location: The Fountains, Salisbury, MD

Contact: Ginny Rosenkranz, 410-749-6141

### 2013 Chesapeake Green: A Horticulture Symposium

February 14 and 15, 2013

Location: Maritime Institute, Linthicum Heights, MD

### LCA Winter Conference

February 14, 2013

Contact: 301-948-0810, <http://www.lcamddcva.org/>

### Maryland Christmas Tree Association Winter Meeting

February 23, 2013

Friendly Farms Restaurant, Upperco, MD

Contact: Wilma Muir, 410-452-9793

### Southern Maryland Landscape Conference

March 6, 2013

Location: TBD, in Waldorf, MD

Contact: Brian Clark, 301-868-8780

### Invasive Species Program

March 28, 2013

Location: Montgomery County Extension Office, Derwood,  
MD

### Interstate Ornamental Plant Management Conference April 3, 2013

Location: Maritime Institute, Linthicum Heights, MD

Contact: Avis Koeiman, 301-405-3913, akoeiman@umd.edu

### Brown Marmorated Stink Bug Update

April 10, 2013 (listed in the October 19th IPM report as April 11th, but we were  
unable to find a facility open on that date)

Location: Carroll Community College, Westminster, MD

Conference information is posted at <http://www.ipmnet.umd.edu>

## Who can people in the commercial horticulture industry contact for help with plant problems?

### Diseases:

Karen Rane: rane@umd.edu, 301-405-1611

Go to [www.plantclinic.umd.edu](http://www.plantclinic.umd.edu) for information on how and where to submit suspected disease samples to her lab.

### Insects:

Stanton Gill: sgill@umd.edu, 410-868-9400 (cell) or 301-596-9413 (office)

Paula Shrewsbury: pshrewsb@umd.edu, 301-405-7664

Brian Clark: bpclark@umd.edu, 301-868-8780 (Brian covers Prince George's County)

### Weeds:

Chuck Schuster: cfs@umd.edu, 301-590-2807

### Soil Substrates Plant Fertility:

Andrew Ristvey: aristvey@umd.edu, 410-827-8056

### Horticulture:

Ginny Rosenkranz: rosnkrnz@umd.edu, 410-749-6141 ext 106 (Wicomico, Worcester and Somerset counties)

**For questions from homeowners and master gardeners, contact the Home and Garden Information Center, <http://hgic.umd.edu> or 800-342-2507, or your local Extension office.**

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